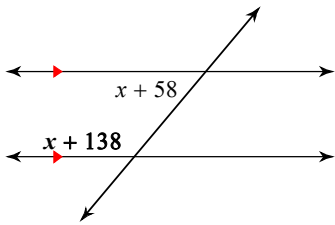


High School Final Review Worksheet

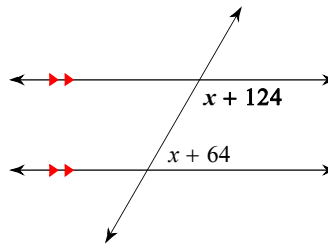
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Find the measure of the angle indicated in bold.

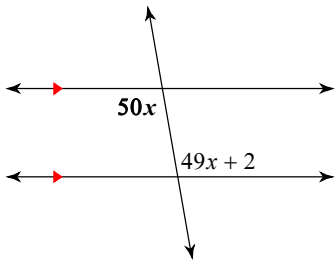
1)



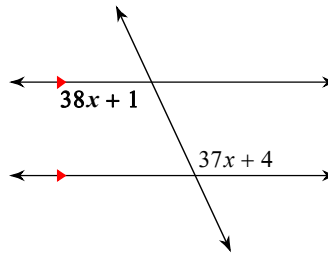
2)



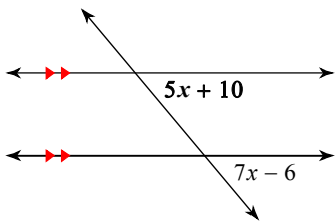
3)



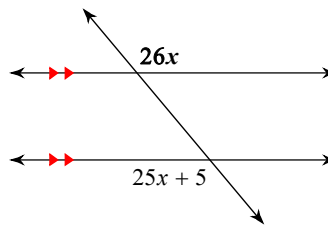
4)



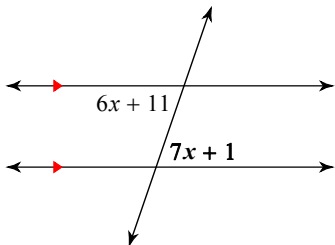
5)



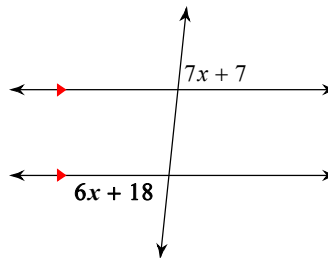
6)



7)

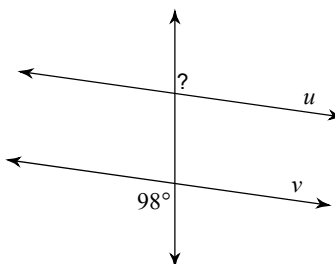


8)

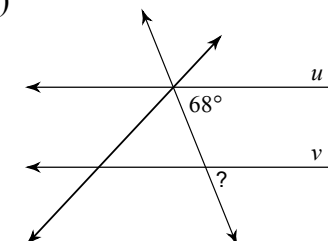


Find the measure of the indicated angle that makes lines u and v parallel.

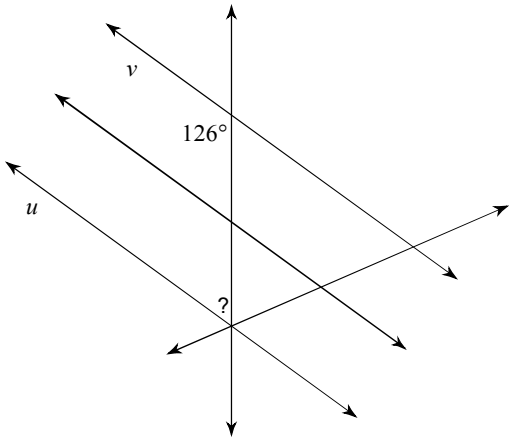
9)



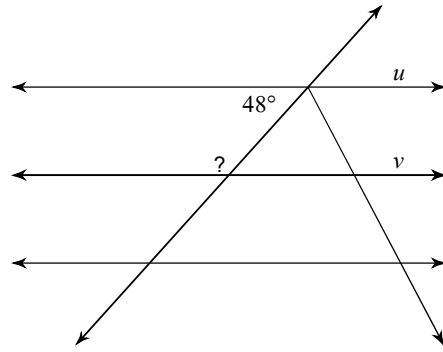
10)



11)

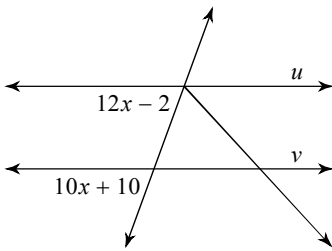


12)

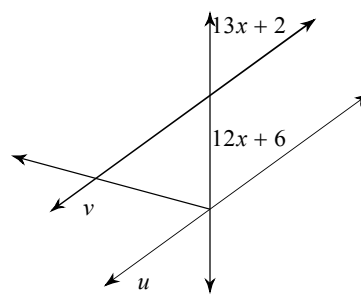


Find the value of x that makes lines u and v parallel.

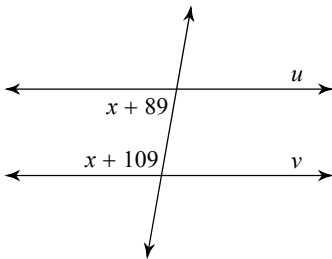
13)



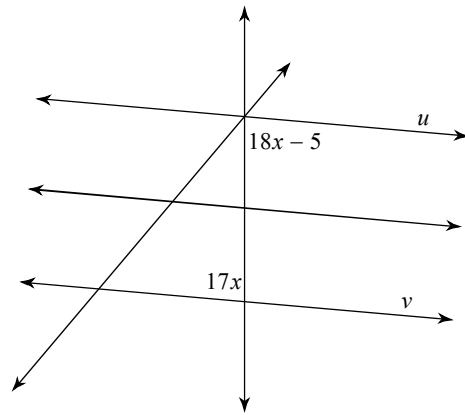
14)



15)

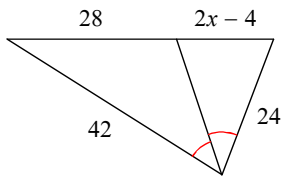


16)

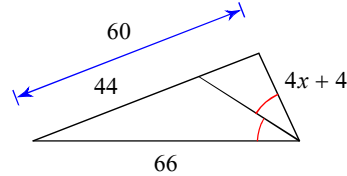


Solve for x .

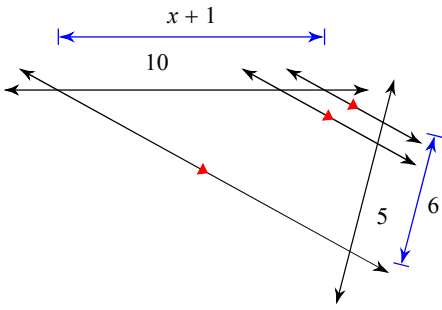
17)



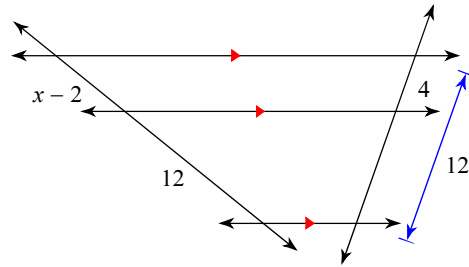
18)



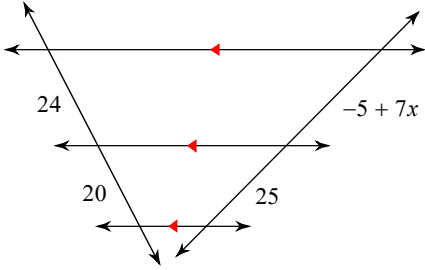
19)



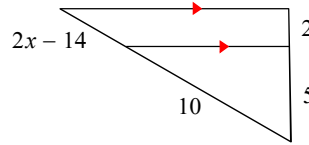
20)



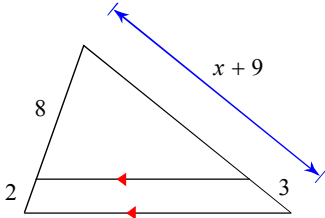
21)



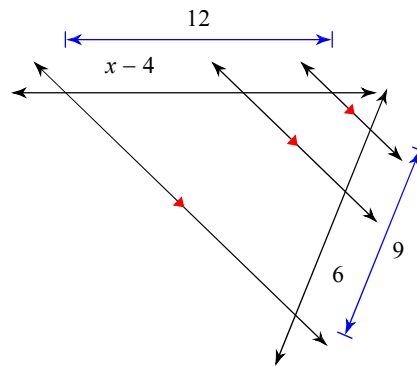
22)



23)

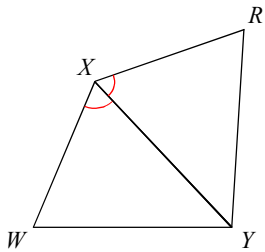


24)

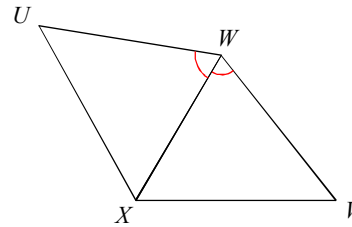


State what additional information is required in order to know that the triangles are congruent for the reason given.

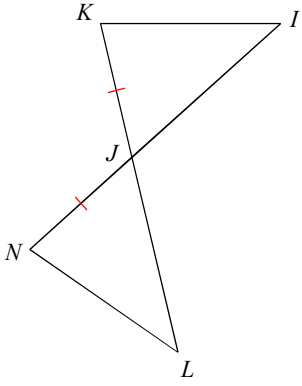
25) AAS



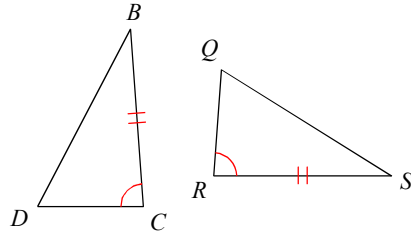
26) ASA



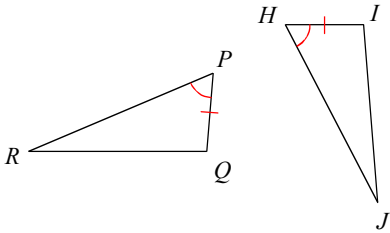
27) AAS



28) SAS

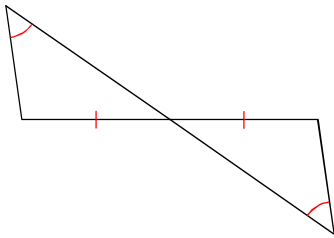


29) ASA

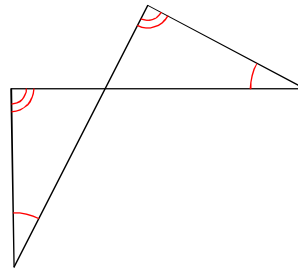


State if the two triangles are congruent. If they are, state how you know.

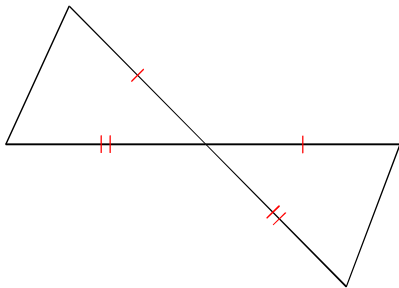
30)



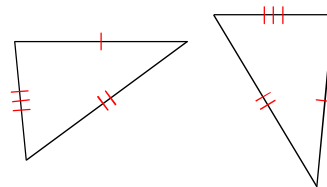
31)



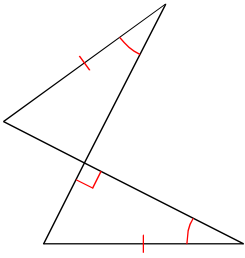
32)



33)



34)

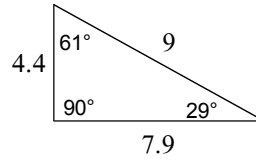


Classify each triangle by its angles and sides.

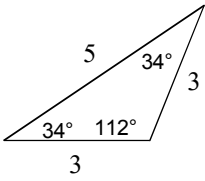
35)



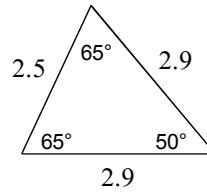
36)



37)

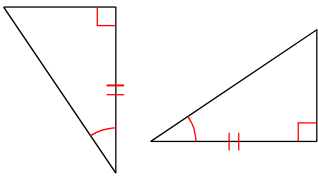


38)

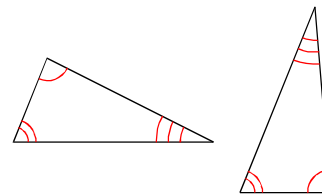


State if the two triangles are congruent. If they are, state how you know.

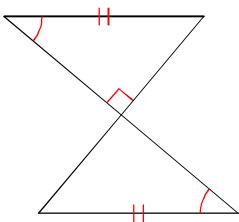
39)



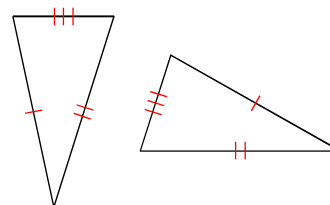
40)



41)

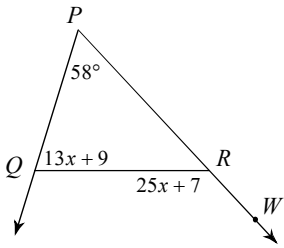


42)

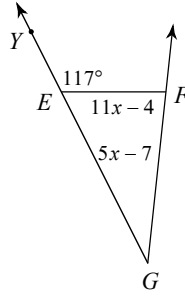


Find the measure of the angle indicated.

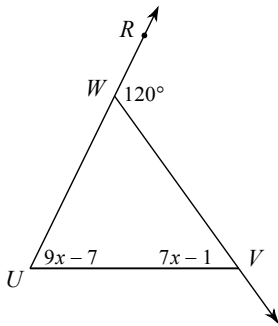
43) Find $m\angle RQP$.



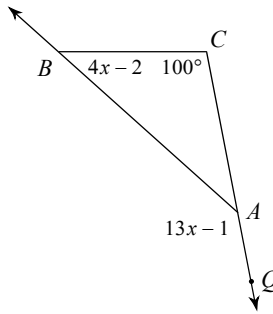
44) Find $m\angle G$.



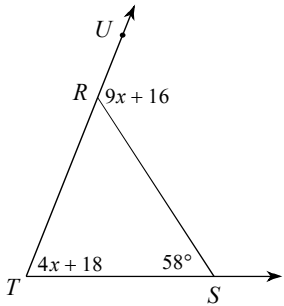
45) Find $m\angle U$.



46) Find $m\angle ABC$.

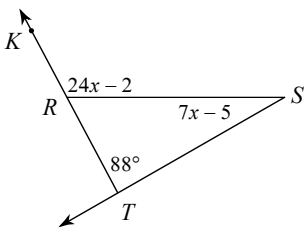


47) Find $m\angle URS$.

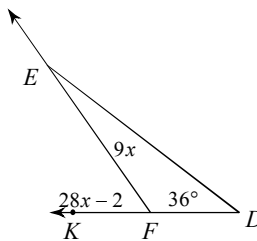


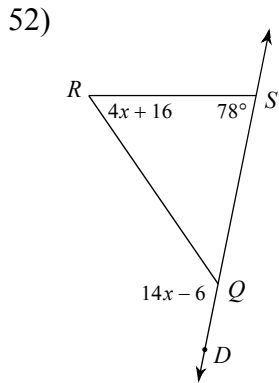
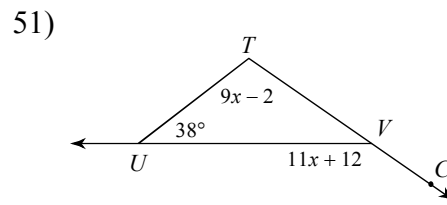
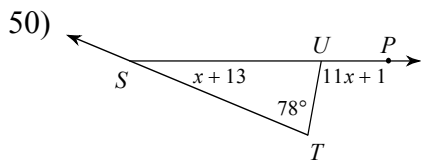
Solve for x .

48)



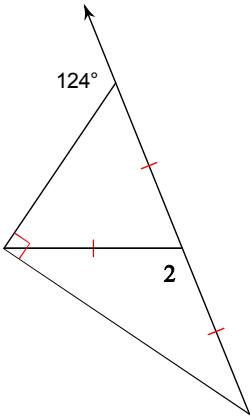
49)



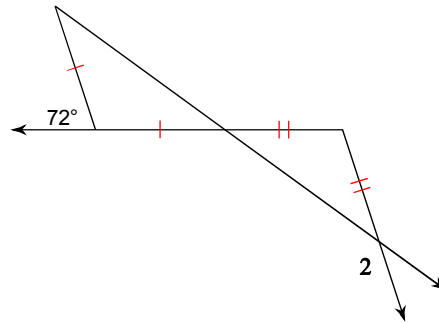


Find the value of x .

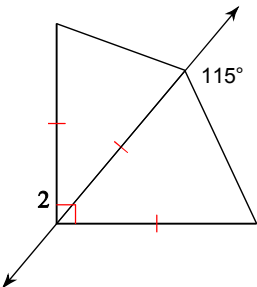
53) $m\angle 2 = x + 119$



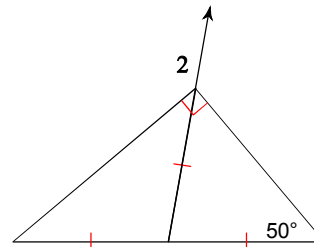
54) $m\angle 2 = 17x - 9$



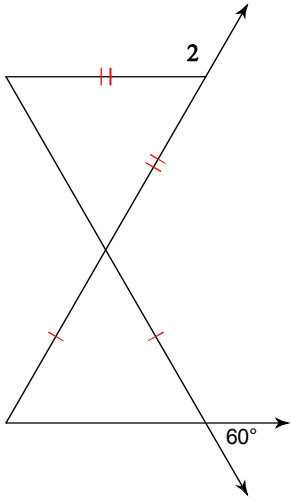
55) $m\angle 2 = x + 153$



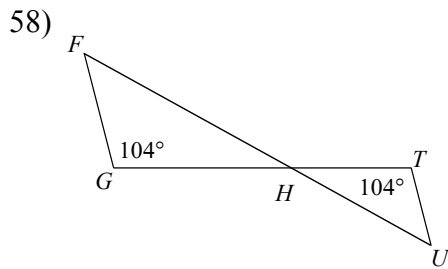
56) $m\angle 2 = 10x + 10$



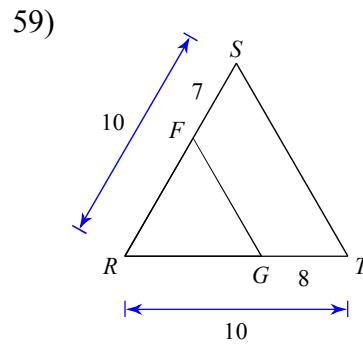
57) $m\angle 2 = x + 134$



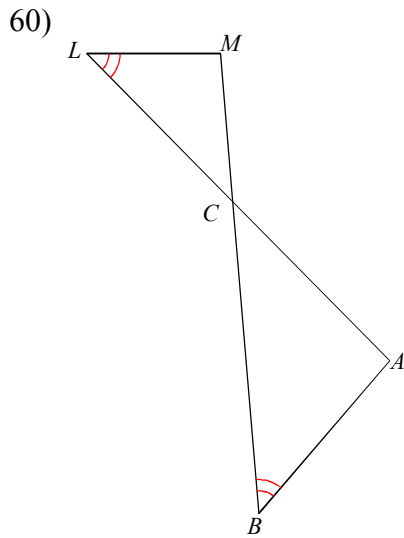
State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.



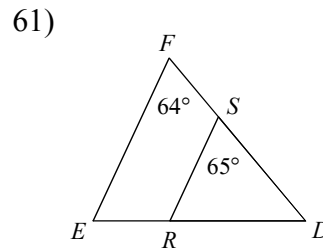
$\triangle HGF \sim \underline{\hspace{2cm}}$



$\triangle RST \sim \underline{\hspace{2cm}}$



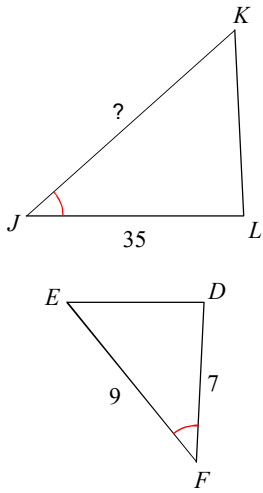
$\triangle CBA \sim \underline{\hspace{2cm}}$



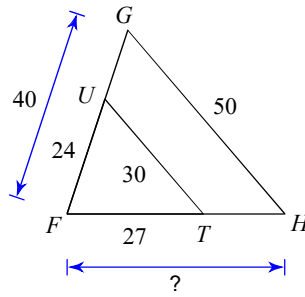
$\triangle DEF \sim \underline{\hspace{2cm}}$

Find the missing length. The triangles in each pair are similar.

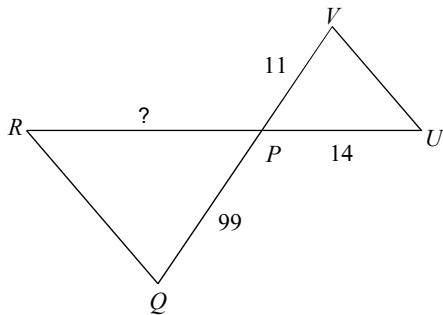
62)



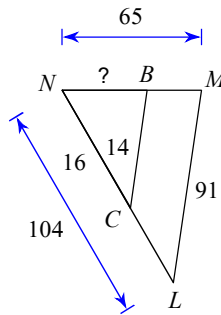
63)



64)

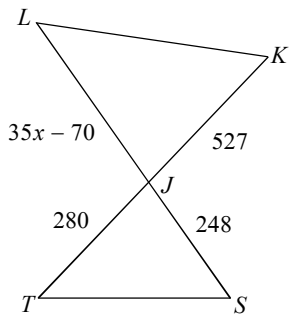


65)

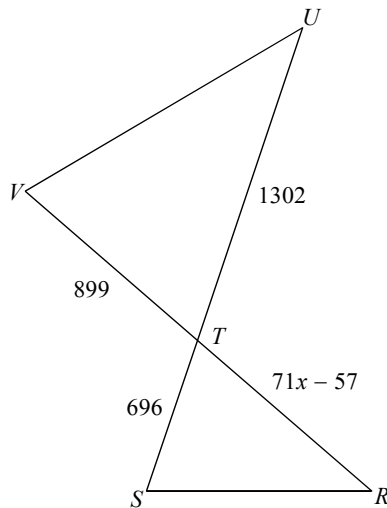


Solve for x . The triangles in each pair are similar.

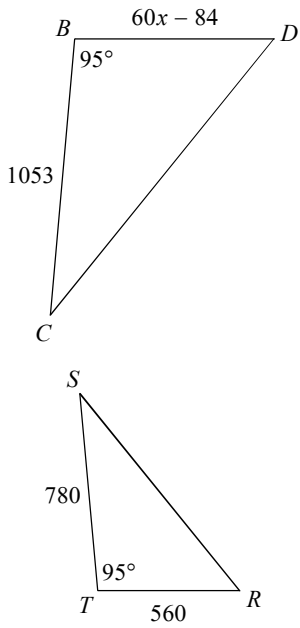
66)



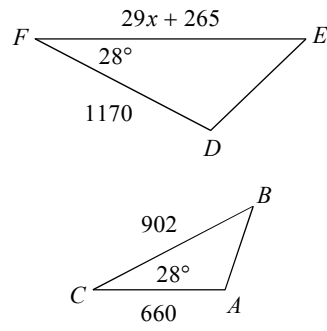
67)



68)

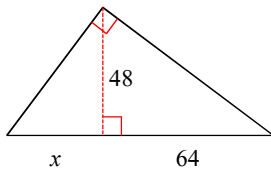


69)

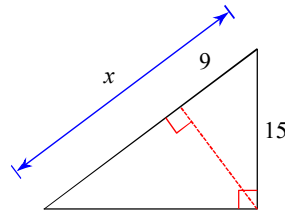


Find the missing length indicated. Leave your answer in simplest radical form.

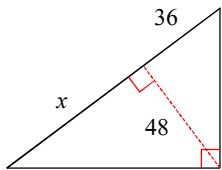
70)



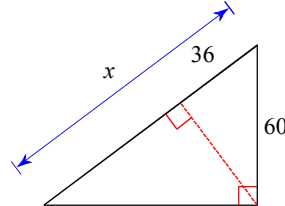
71)



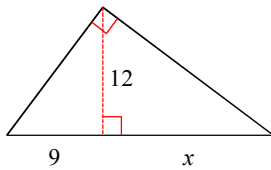
72)



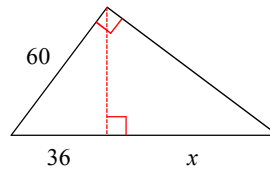
73)



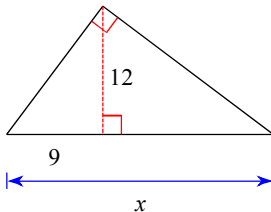
74)



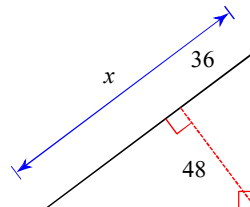
75)



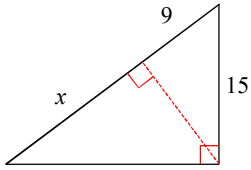
76)



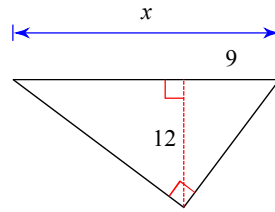
77)



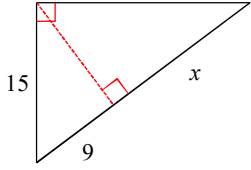
78)



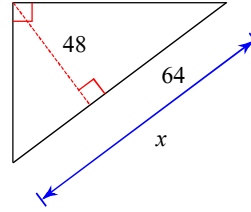
79)



80)

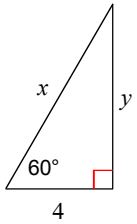


81)

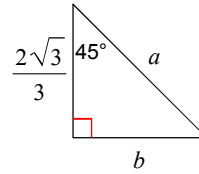


Find the missing side lengths. Leave your answers as radicals in simplest form.

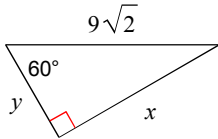
82)



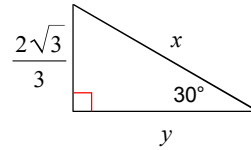
83)



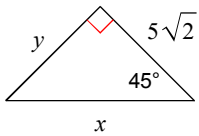
84)



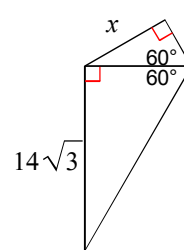
85)



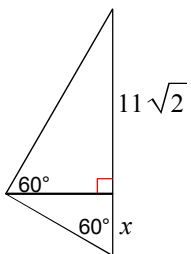
86)



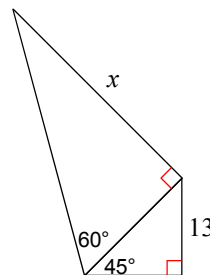
87)



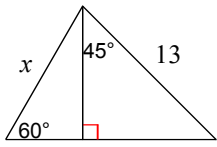
88)



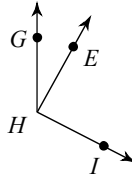
89)



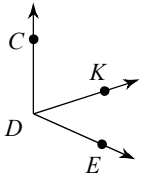
90)



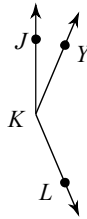
91) $m\angle GHE = 15x - 1$, $m\angle EHI = 88^\circ$,
and $m\angle GHI = 58x + 1$. Find $m\angle GHI$.



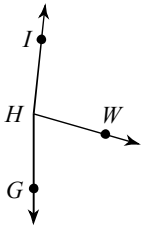
92) Find $m\angle CDK$ if $m\angle KDE = 42 + 2x$,
 $m\angle CDE = 114^\circ$, and $m\angle CDK = x + 72$.



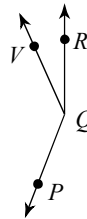
93) $m\angle JKY = 8x - 1$, $m\angle JKL = 51x + 4$,
and $m\angle YKL = 134^\circ$. Find $m\angle JKL$.



94) $m\angle WHG = 5x + 19$, $m\angle IHW = 100^\circ$,
and $m\angle IHG = 14x + 20$. Find $m\angle IHG$.

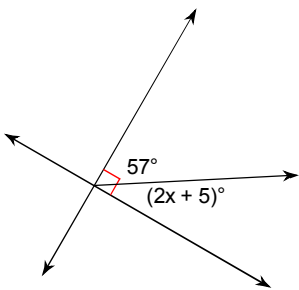


95) Find $m\angle PQV$ if $m\angle PQR = 159^\circ$,
 $m\angle VQR = 13x - 2$, and $m\angle PQV = 66x + 3$.

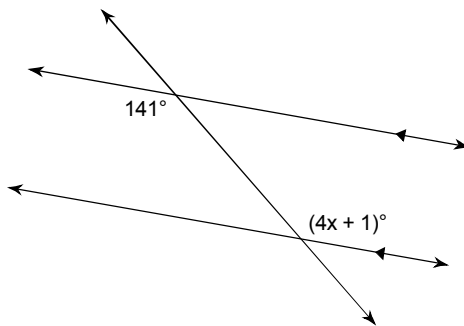


Find the value of x.

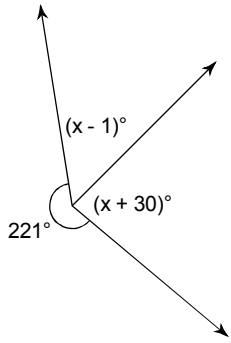
96)



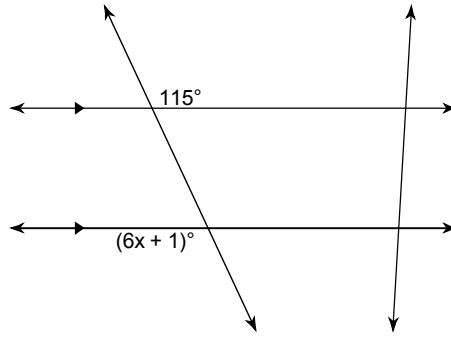
97)



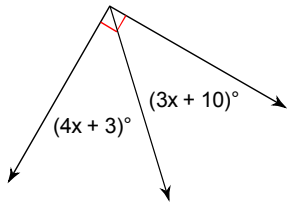
98)



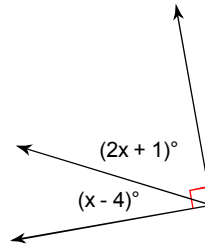
99)



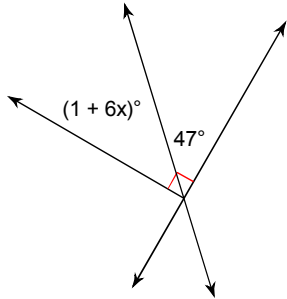
100)



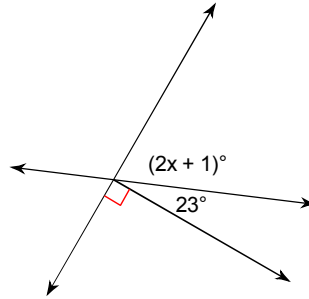
101)



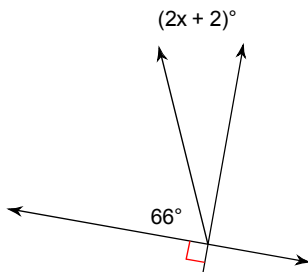
102)



103)

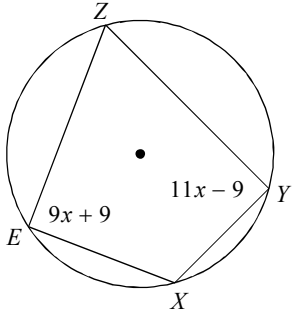


104)

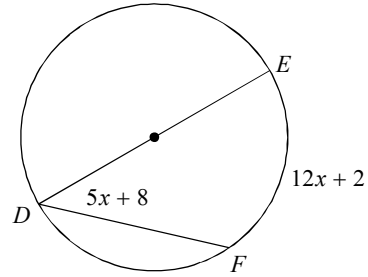


Find the measure of the arc or angle indicated.

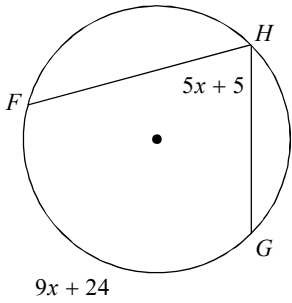
105) Find $m\widehat{ZYX}$



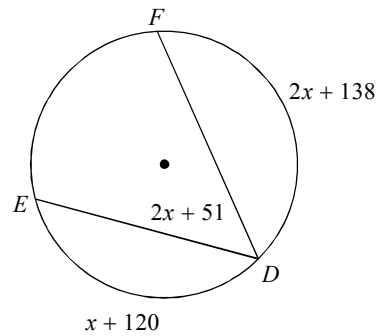
106) Find $m\angle EDF$



107) Find $m\angle GHF$

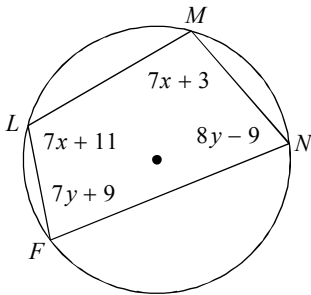


108) Find $m\angle EDF$

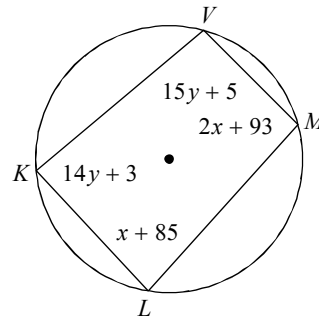


Solve for x and y .

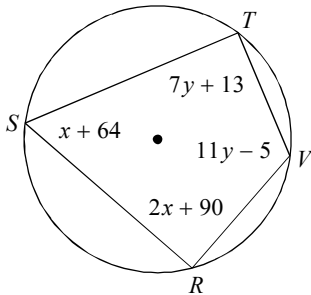
109)



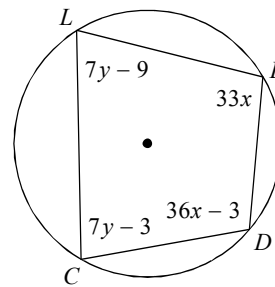
110)



111)

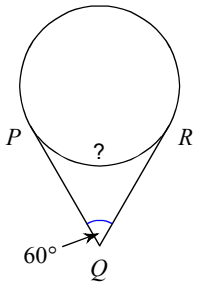


112)

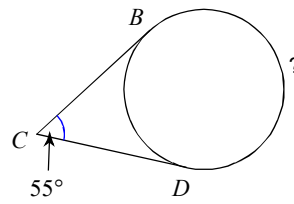


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

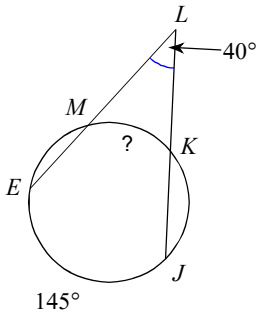
113)



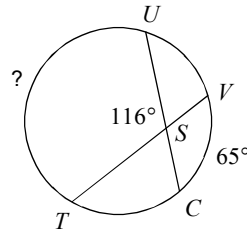
114)



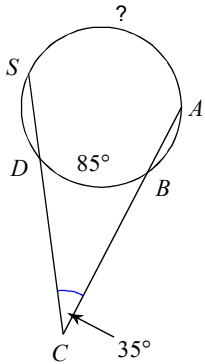
115)



116)

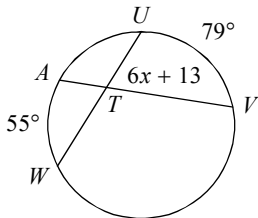


117)

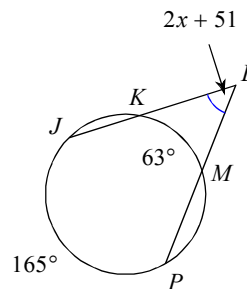


Solve for x . Assume that lines which appear tangent are tangent.

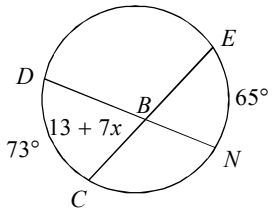
118)



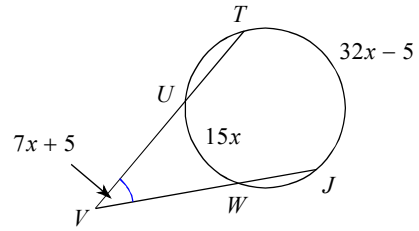
119)



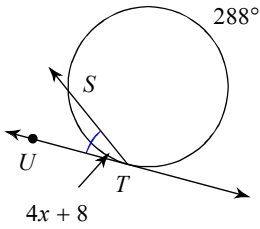
120)



121)

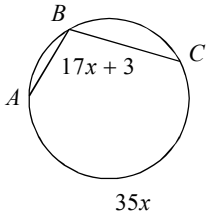


122)

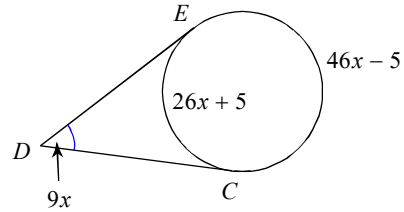


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

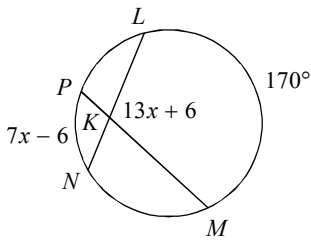
123) Find $m\angle ABC$



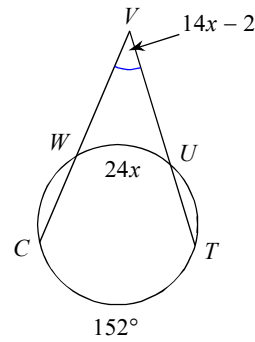
124) Find $m\angle CDE$



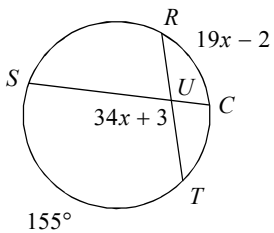
125) Find $m\angle LKM$



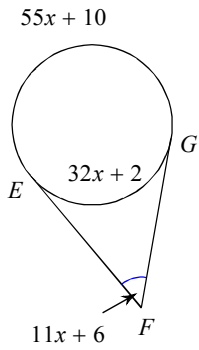
126) Find $m\angle TVC$



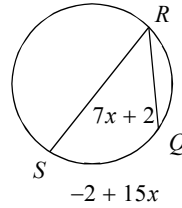
127) Find $m\angle TUS$



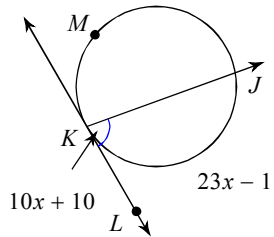
128) Find $m\widehat{EG}$



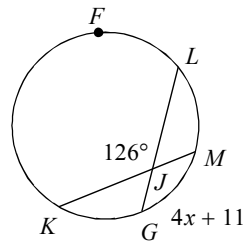
129) Find $m\angle SRQ$



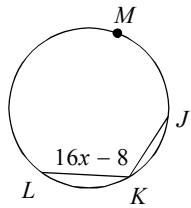
130) Find $m\widehat{JK}$



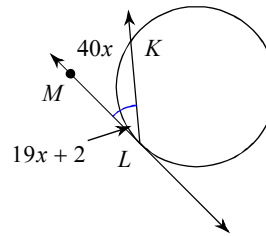
131) $m\widehat{KFL} = 19x + 11$
Find $m\widehat{KFL}$



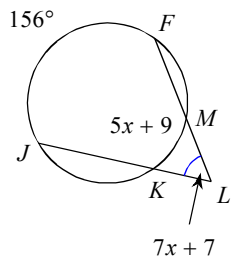
132) $m\widehat{JML} = 30x$
Find $m\widehat{JML}$



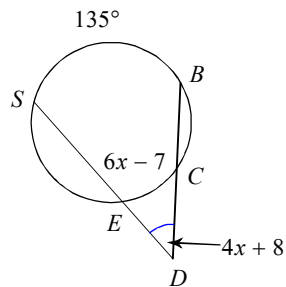
133) Find $m\angle KLM$



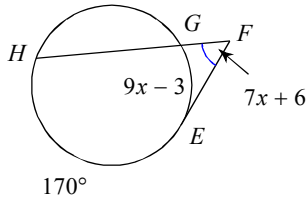
134) Find $m\angle JLF$



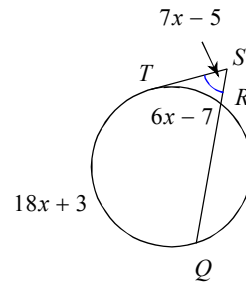
135) Find $m\angle BDS$



136) Find $m\angle EFH$

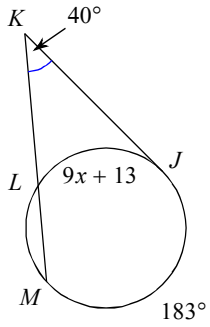


137) Find $m\angle TSQ$

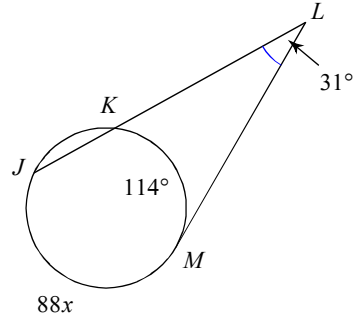


Solve for x . Assume that lines which appear tangent are tangent.

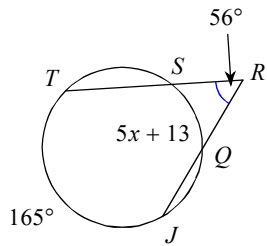
138)



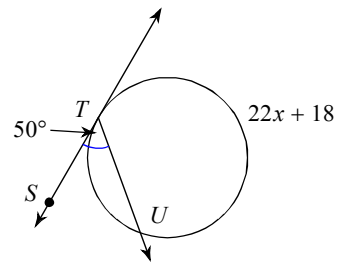
139)



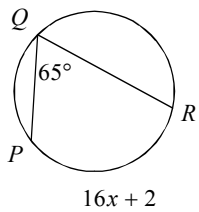
140)



141)

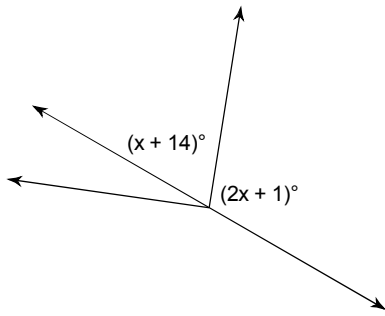


142)

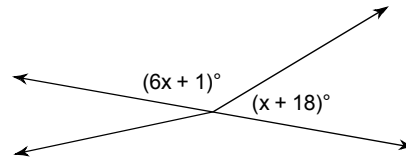


Find the value of x .

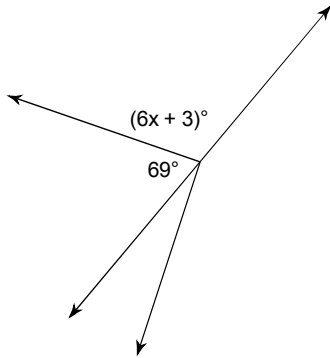
143)



144)

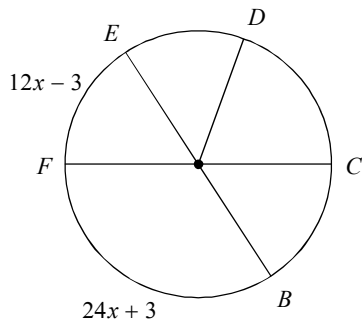


145)

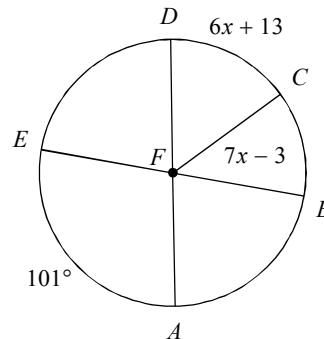


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

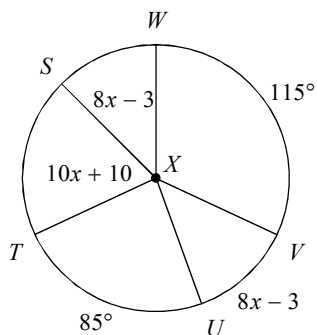
146) $m\widehat{FE}$



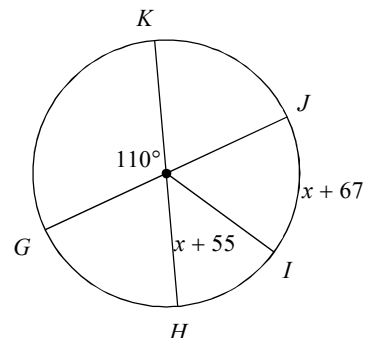
147) $m\angle EFD$



148) $m\angle SXW$

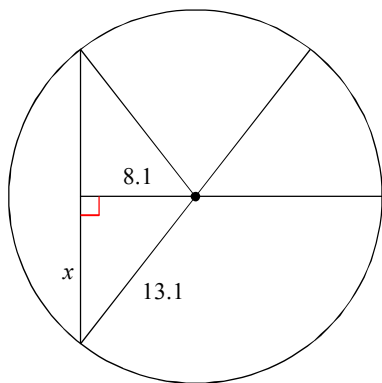


149) $m\widehat{HKI}$

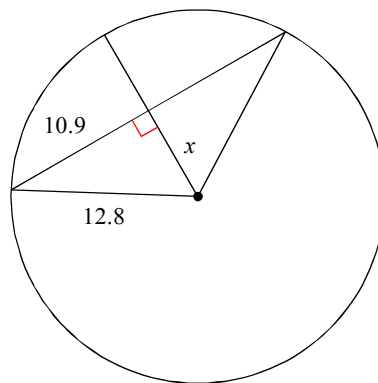


Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

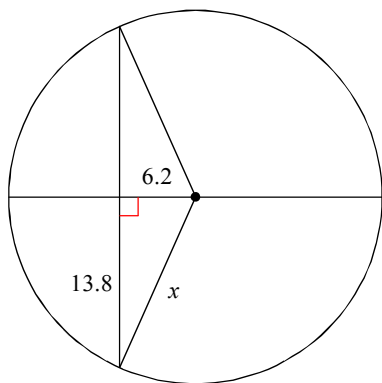
150)



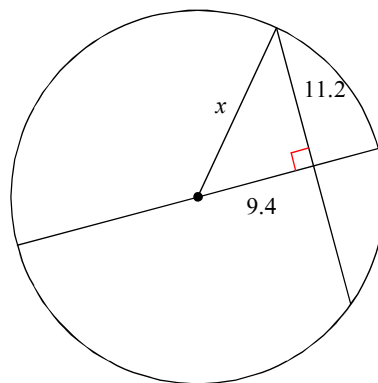
151)



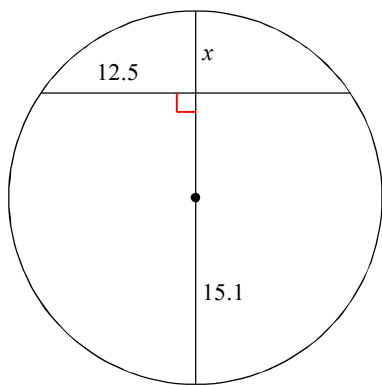
152)



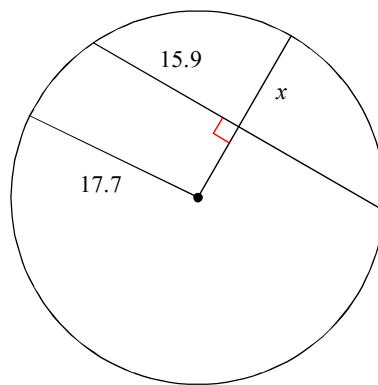
153)



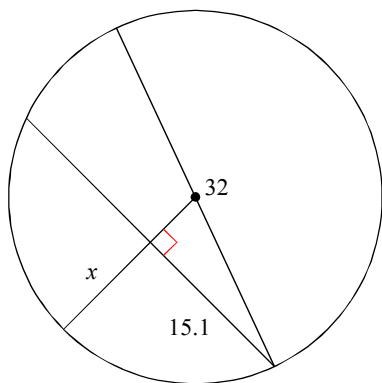
154)



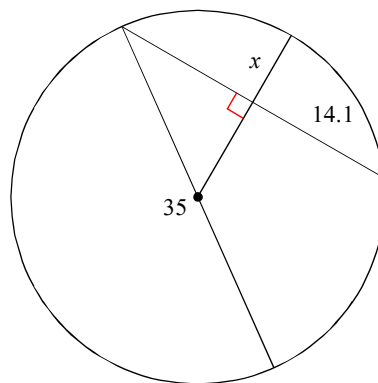
155)



156)

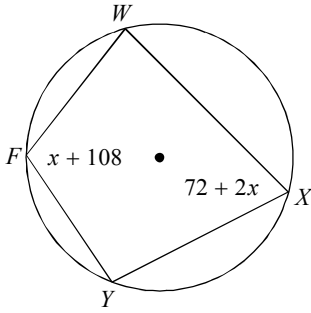


157)

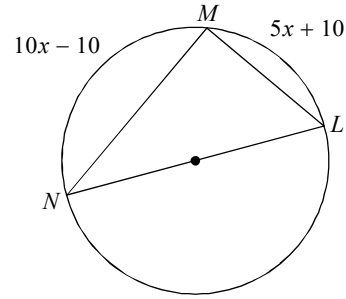


Find the measure of the arc or angle indicated.

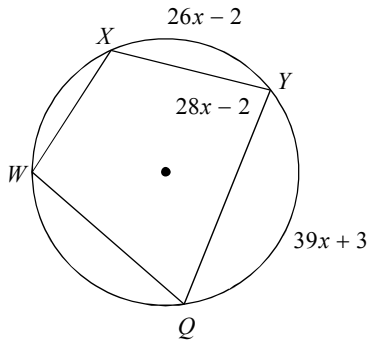
158) Find $m\angle WFY$



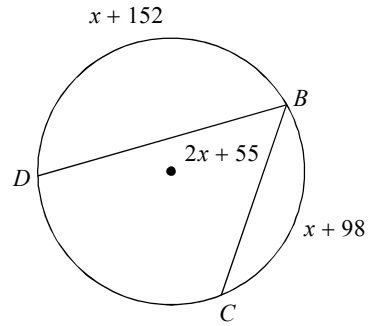
159) Find $m\angle LNM$



160) Find $m\widehat{XY}$

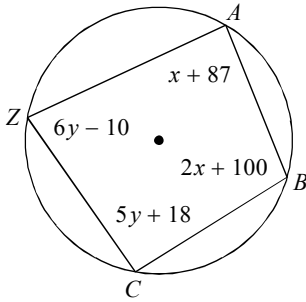


161) Find $m\angle CBD$

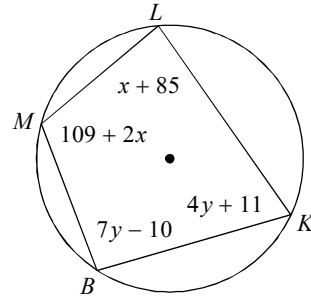


Solve for x and y .

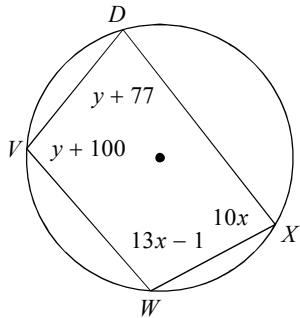
162)



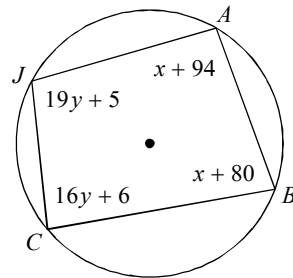
163)



164)

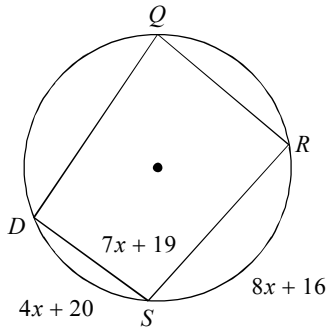


165)

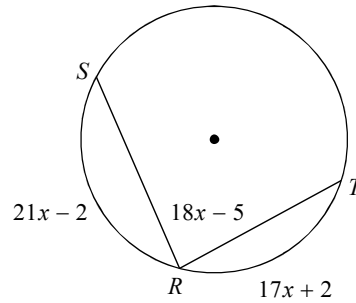


Find the measure of the arc or angle indicated.

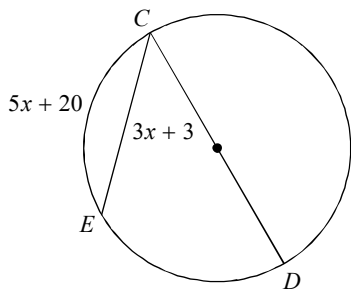
166) Find $m\angle DSR$



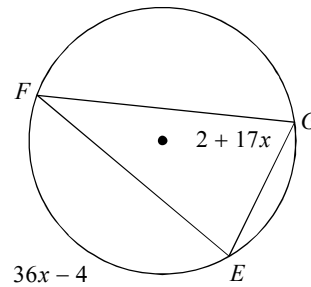
167) Find $m\widehat{RS}$



168) Find $m\angle DCE$

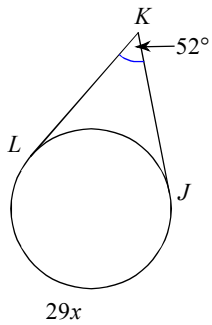


169) Find $m\widehat{EF}$

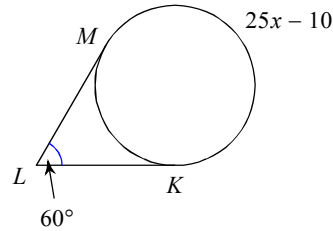


Solve for x . Assume that lines which appear tangent are tangent.

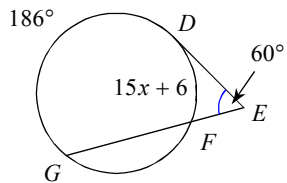
170)



171)

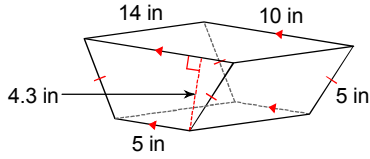


172)

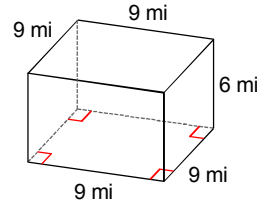


Find the lateral area and surface area of each figure. Round your answers to the nearest thousandth, if necessary. Leave your answers in terms of π for answers that contain π .

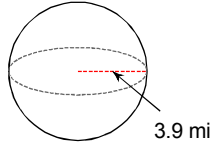
173)



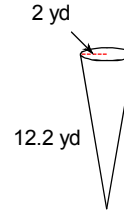
174)



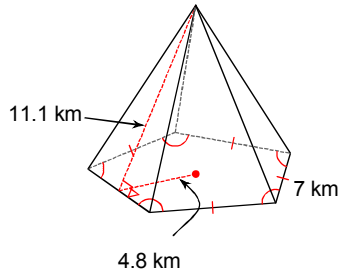
175)



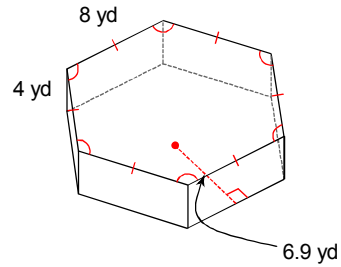
176)



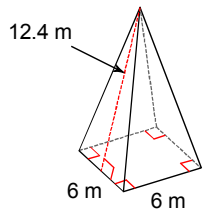
177)



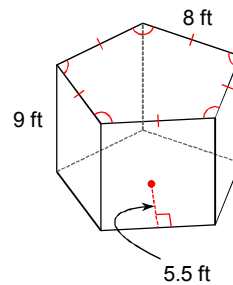
178)



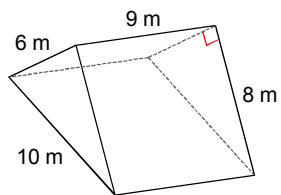
179)



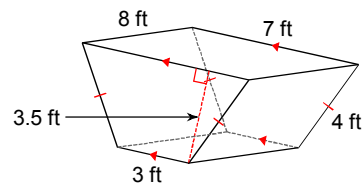
180)



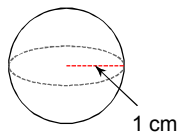
181)



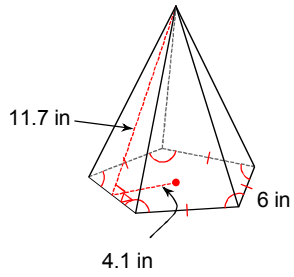
182)



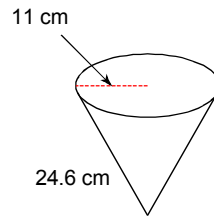
183)



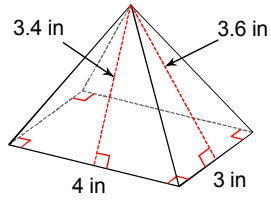
184)



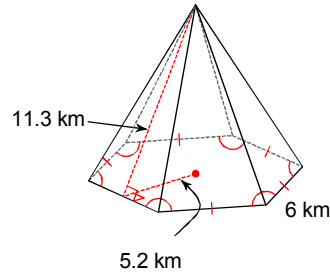
185)



186)

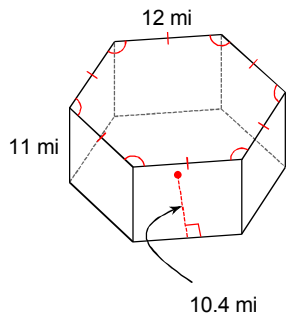


187)

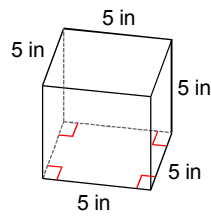


Find the volume of each figure. Round your answers to the nearest thousandth, if necessary.

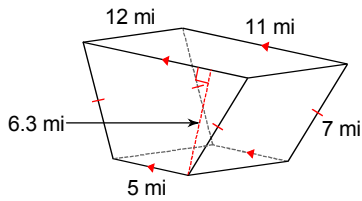
188)



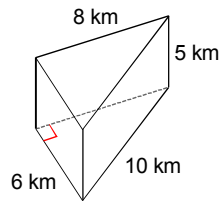
189)



190)

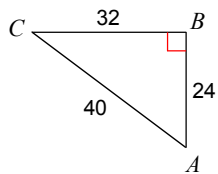


191)

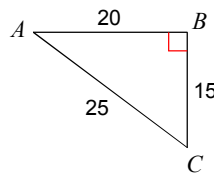


Find the value of each trigonometric ratio.

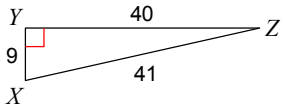
192) $\tan C$



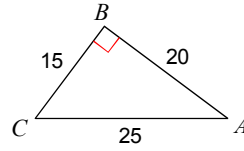
193) $\sin C$



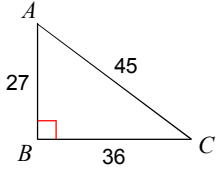
194) $\sin Z$



195) $\sin A$

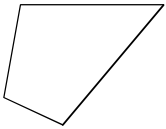


196) $\sin A$

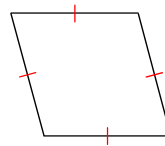


State the most specific name for each figure.

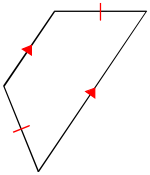
197)



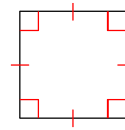
198)



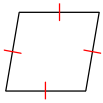
199)



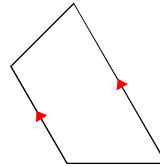
200)



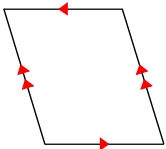
201)



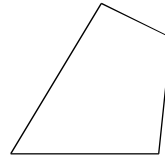
202)



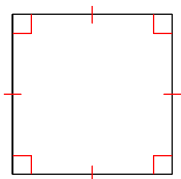
203)



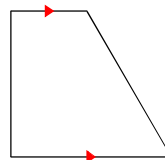
204)



205)

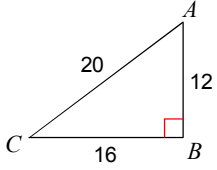


206)

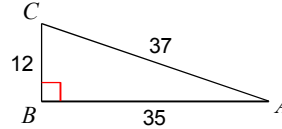


Find the value of each trigonometric ratio.

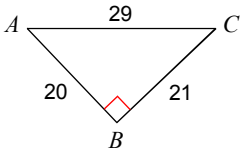
207) $\sin A$



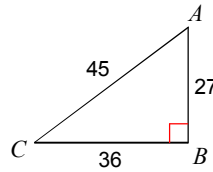
208) $\sin C$



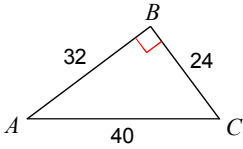
209) $\sin C$



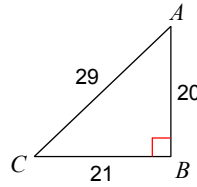
210) $\cos A$



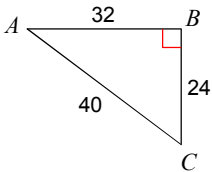
211) $\cos A$



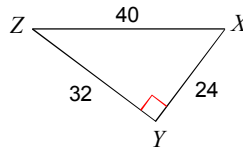
212) $\cos C$



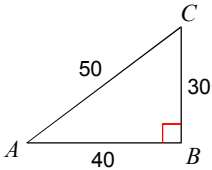
213) $\tan A$



214) $\tan X$

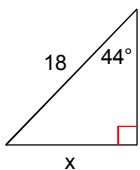


215) $\tan C$

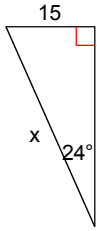


Find the missing side. Round to the nearest tenth.

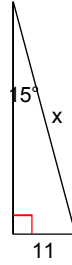
216)



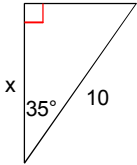
217)



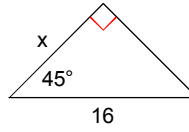
218)



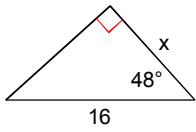
219)



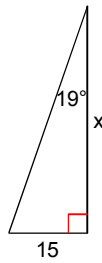
220)



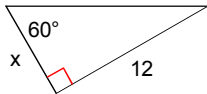
221)



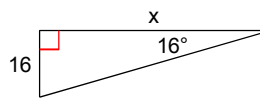
222)



223)

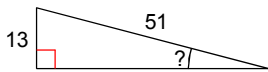


224)

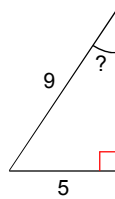


Find the measure of the indicated angle to the nearest degree.

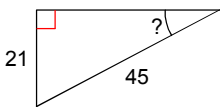
225)



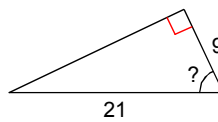
226)



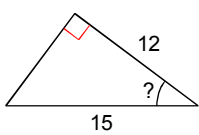
227)



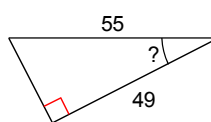
228)



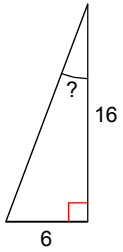
229)



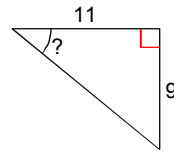
230)



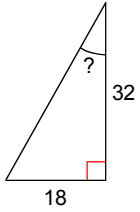
231)



232)

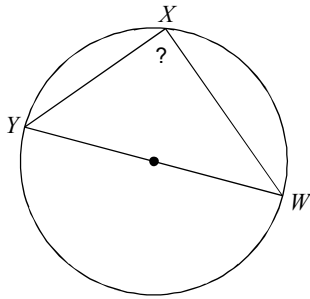


233)

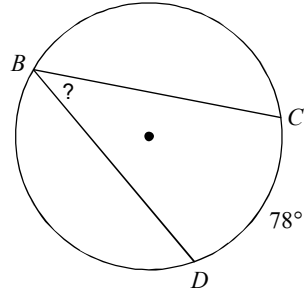


Find the measure of the arc or angle indicated.

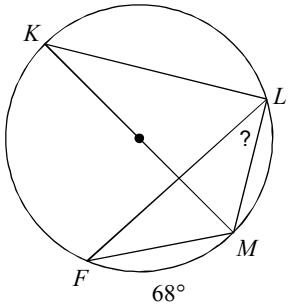
234)



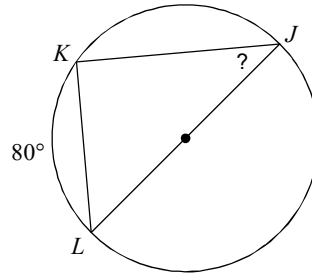
235)



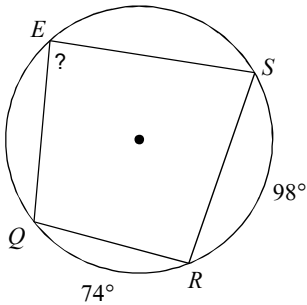
236)



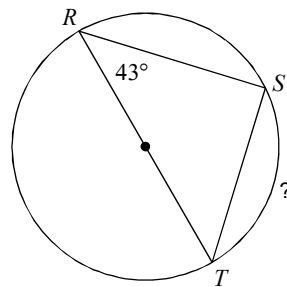
237)



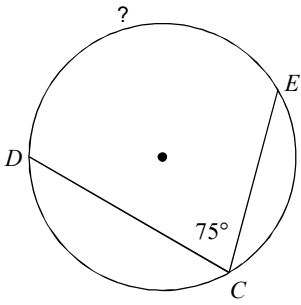
238)



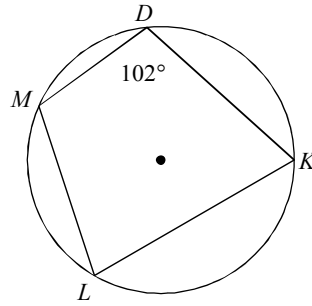
239)



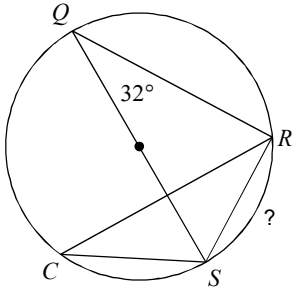
240)



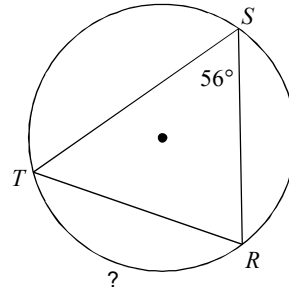
241) Find $m\widehat{KLM}$



242)

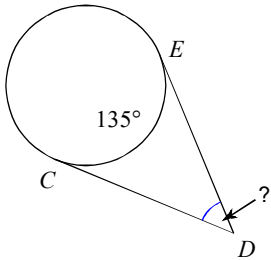


243)

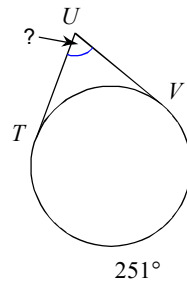


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

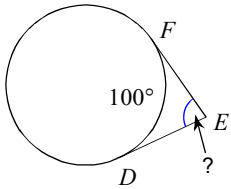
244)



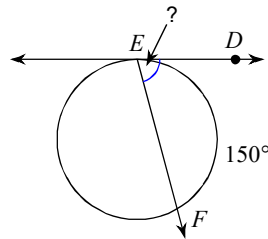
245)



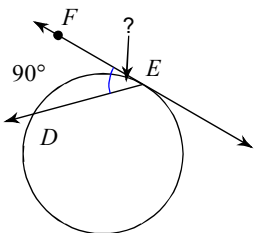
246)



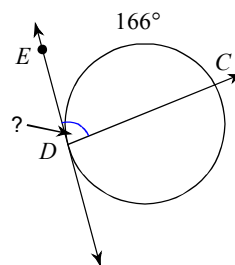
247)



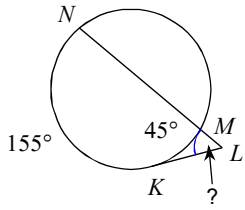
248)



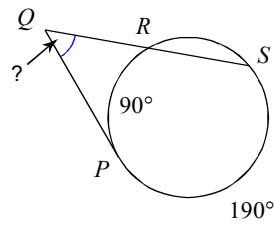
249)



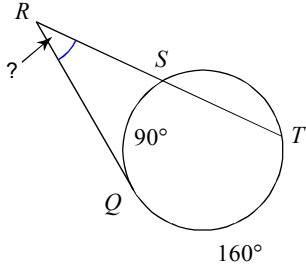
250)



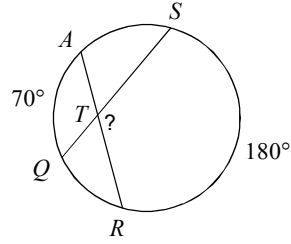
251)



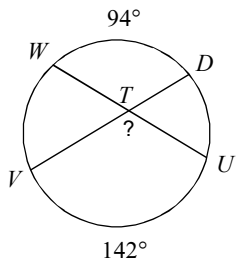
252)



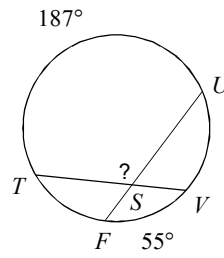
253)



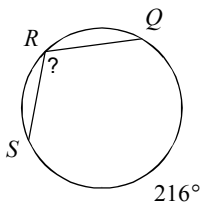
254)



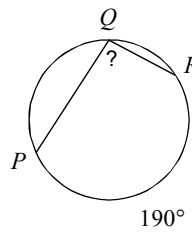
255)



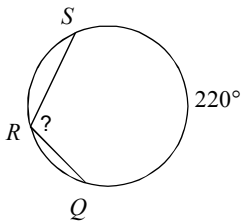
256)



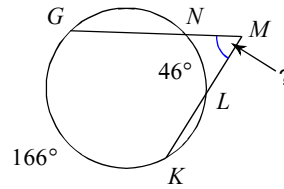
257)



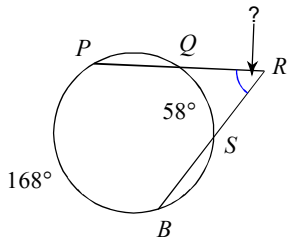
258)



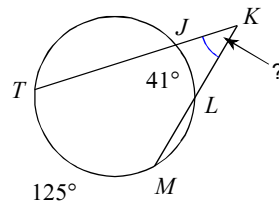
259)



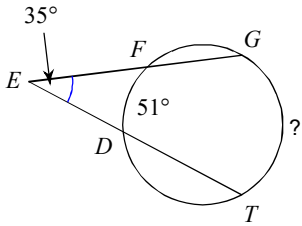
260)



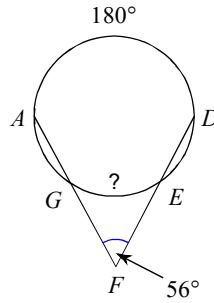
261)



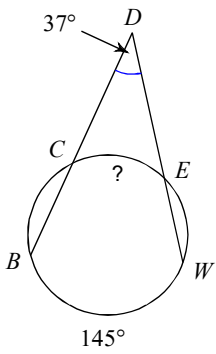
262)



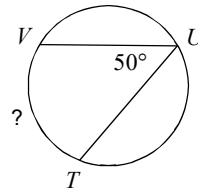
263)



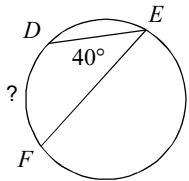
264)



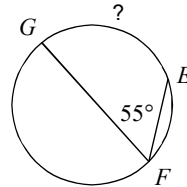
265)



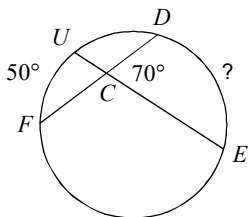
266)



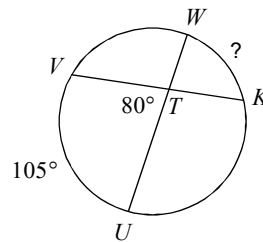
267)



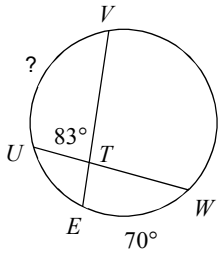
268)



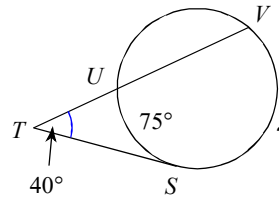
269)



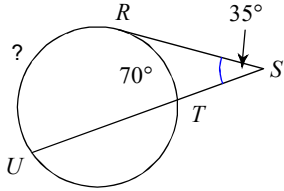
270)



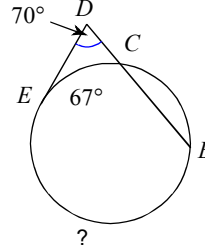
271)



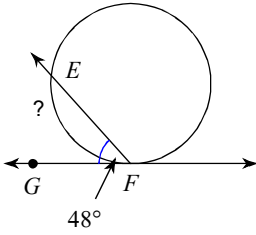
272)



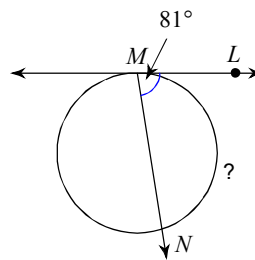
273)



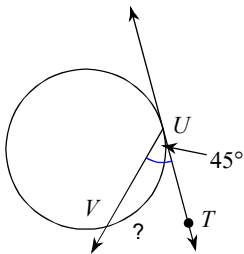
274)



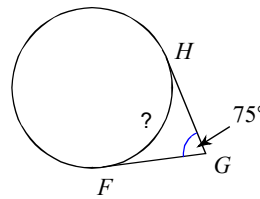
275)



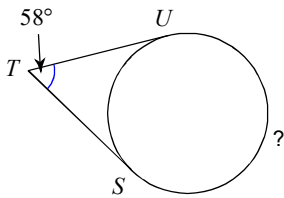
276)



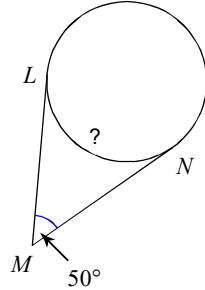
277)



278)

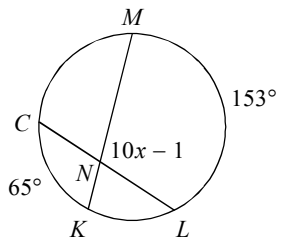


279)

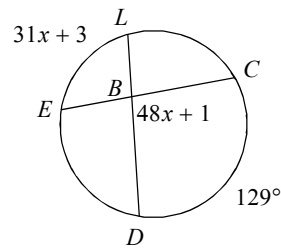


Solve for x . Assume that lines which appear tangent are tangent.

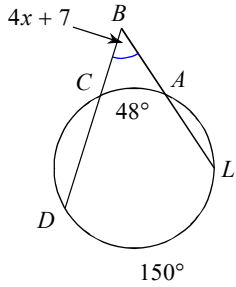
280)



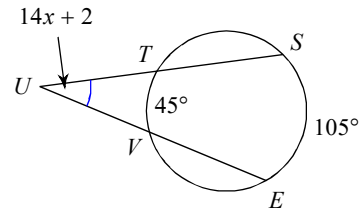
281)



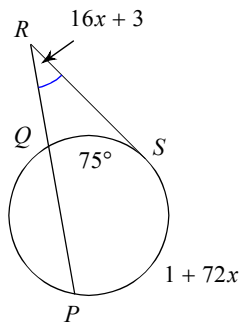
282)



283)

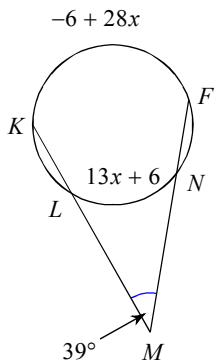


284)

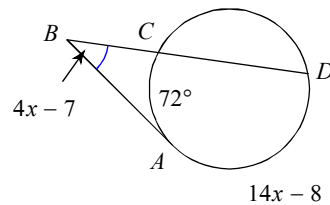


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

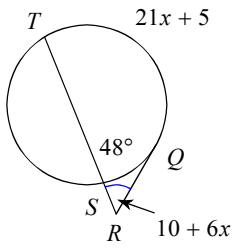
285) Find $m\widehat{FK}$



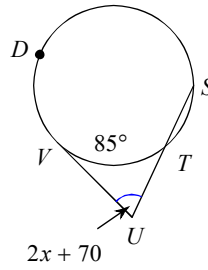
286) Find $m\widehat{DCA}$



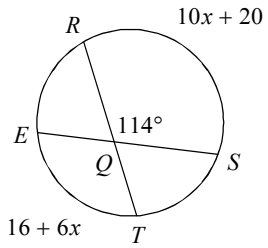
287) Find $m\widehat{TQ}$



288) $m\widehat{SDV} = 2x + 225$
Find $m\widehat{SDV}$

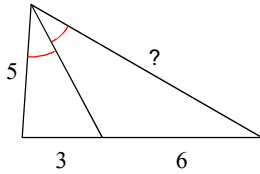


289) Find $m\widehat{TE}$

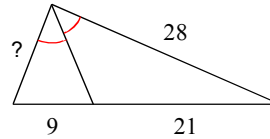


Find the missing length indicated.

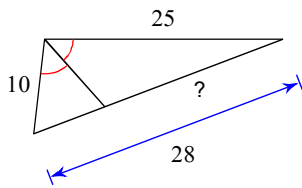
290)



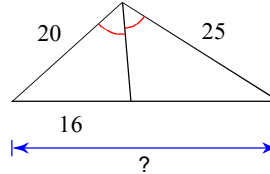
291)



292)

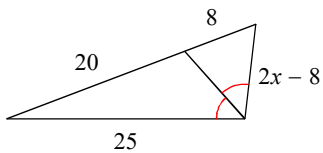


293)

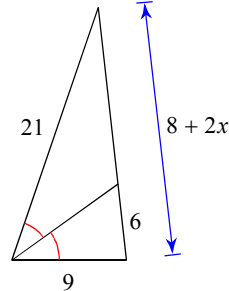


Solve for x .

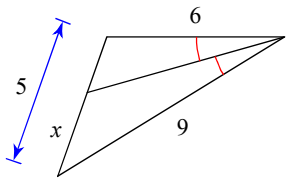
294)



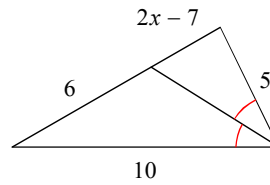
295)



296)

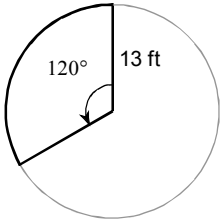


297)

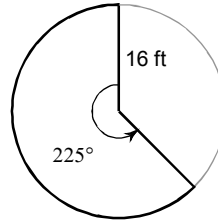


Find the area of each sector.

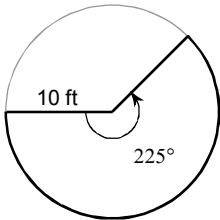
298)



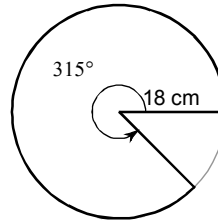
299)



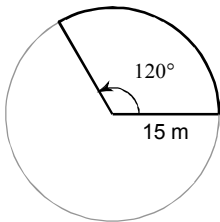
300)



301)

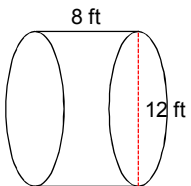


302)

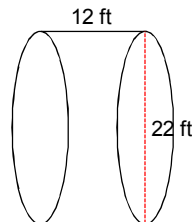


Find the volume of each figure. Round your answers to the nearest hundredth, if necessary. Leave your answers in terms of π for answers that contain π .

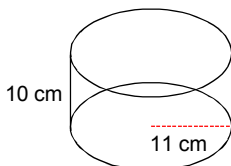
303)



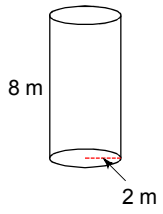
304)



305)

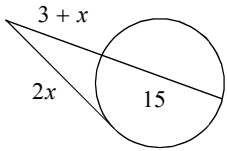


306)

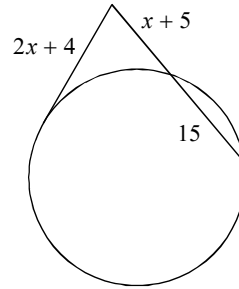


Solve for x . Assume that lines which appear tangent are tangent.

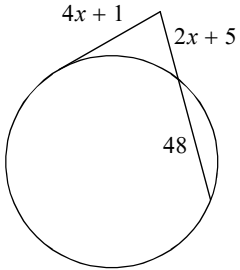
307)



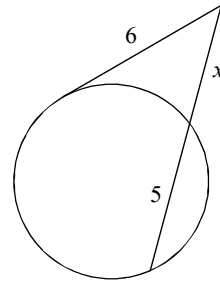
308)



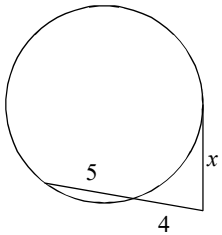
309)



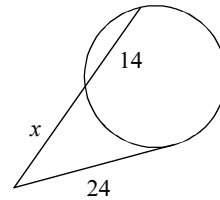
310)



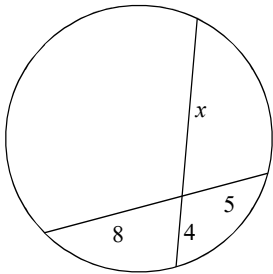
311)



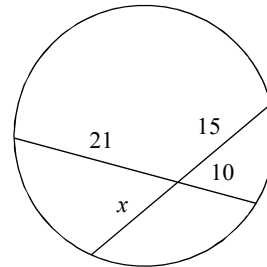
312)



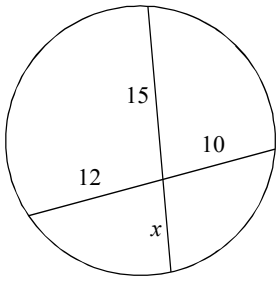
313)



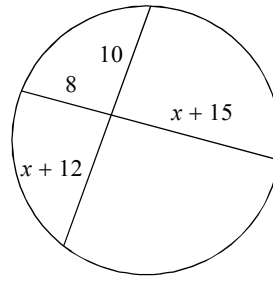
314)



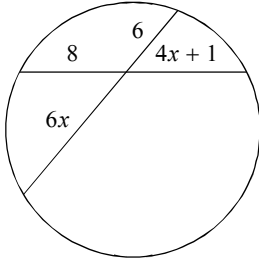
315)



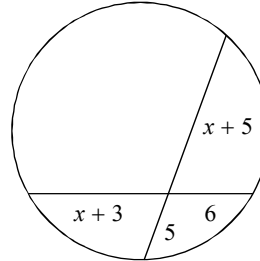
316)



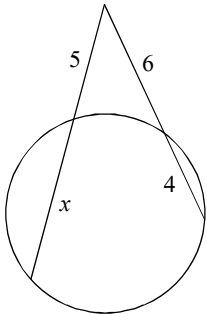
317)



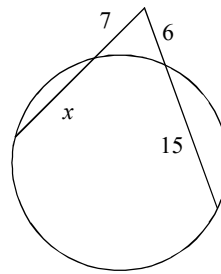
318)



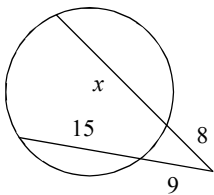
319)



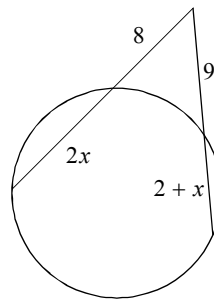
320)



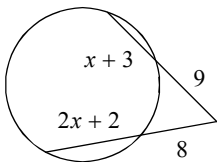
321)



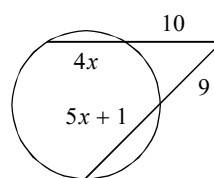
322)



323)

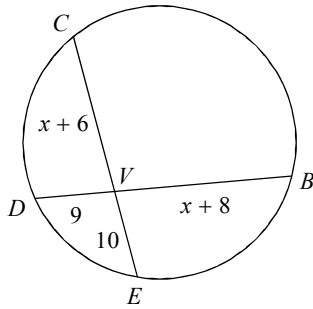


324)

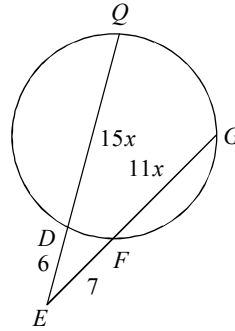


Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

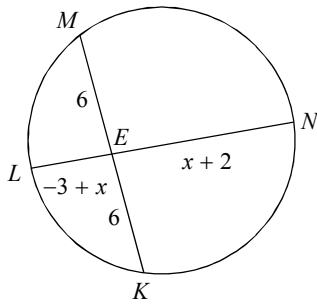
325) Find DB



326) Find GE



327) Find LN



Find the midpoint of the line segment with the given endpoints.

328) $(-1, 4), (-6, -4)$

329) $(5, 10), (-7, -4)$

330) $(2, -7), (0, 6)$

331) $(8, 6), (-1, 6)$

Find the distance between each pair of points.

332) $(-6, -4), (2, -8)$

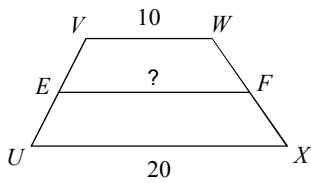
333) $(1, 8), (0, 2)$

334) $(-2, 4), (-6, 2)$

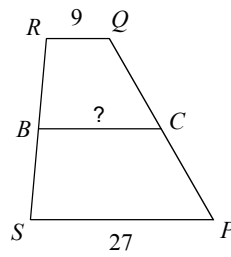
335) $(3, 2), (-2, -3)$

Find the length of the median of each trapezoid.

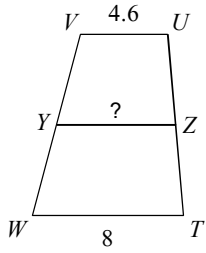
336)



337)

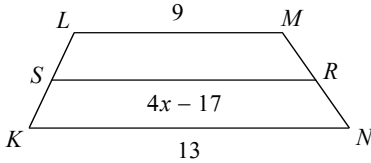


338)

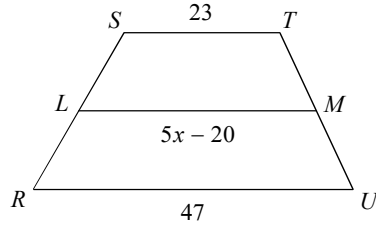


Solve for x . Each figure is a trapezoid.

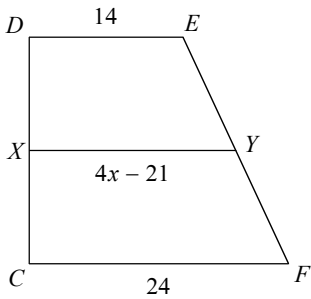
339)



340)

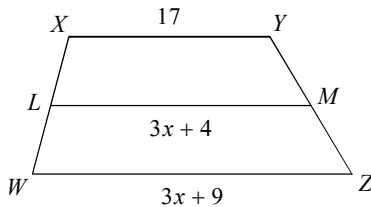


341)

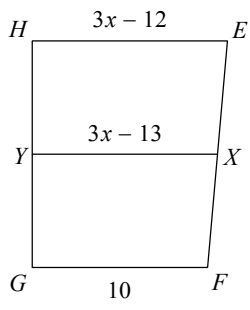


Find the length of the median of each trapezoid.

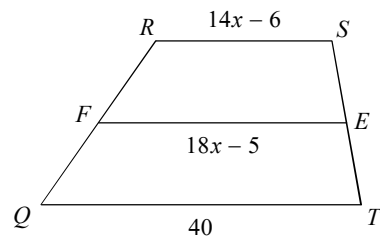
342)



343)



344)



Answers to High School Final Review Worksheet

- | | | | |
|--|--|--------------------------------------|--|
| 1) 130° | 2) 120° | 3) 100° | 4) 115° |
| 5) 50° | 6) 130° | 7) 71° | 8) 84° |
| 9) 98° | 10) 68° | 11) 54° | 12) 132° |
| 13) 6 | 14) 4 | 15) -9 | 16) 5 |
| 17) 10 | 18) 5 | 19) 11 | 20) 8 |
| 21) 5 | 22) 9 | 23) 6 | 24) $\frac{12}{\overline{CD}} \cong \frac{\overline{12}}{\overline{RQ}}$ |
| 25) $\angle W \cong \angle R$ | 26) $\angle VXW \cong \angle UXW$ | 27) $\angle I \cong \angle L$ | 28) $\overline{CD} \cong \overline{RQ}$ |
| 29) $\angle Q \cong \angle I$ | 30) AAS | 31) Not congruent | 32) SAS |
| 33) SSS | 34) HA | 35) obtuse isosceles | 36) right scalene |
| 37) obtuse isosceles | 38) acute isosceles | 39) LA | 40) Not congruent |
| 41) HA | 42) SSS | 43) 74° | 44) 33° |
| 45) 65° | 46) 42° | 47) 124° | 48) 5 |
| 49) 2 | 50) 9 | 51) 12 | 52) 10 |
| 53) -7 | 54) 9 | 55) -13 | 56) 13 |
| 57) -14 | 58) similar; AA similarity; $\triangle HTU$ | 59) not similar | |
| 60) similar; AA similarity; $\triangle CLM$ | 61) not similar | 62) 45 | |
| 63) 45 | 64) 126 | 65) 10 | 66) 19 |
| 67) 15 | 68) 14 | 69) 46 | 70) 36 |
| 71) 25 | 72) 64 | 73) 100 | 74) 16 |
| 75) 64 | 76) 25 | 77) 100 | 78) 16 |
| 79) 25 | 80) 16 | 81) 100 | 82) $x = 8, y = 4\sqrt{3}$ |
| 83) $a = \frac{2\sqrt{6}}{3}, b = \frac{2\sqrt{3}}{3}$ | 84) $x = \frac{9\sqrt{6}}{2}, y = \frac{9\sqrt{2}}{2}$ | 85) $x = \frac{4\sqrt{3}}{3}, y = 2$ | |
| 86) $x = 10, y = 5\sqrt{2}$ | 87) $7\sqrt{3}$ | 88) $\frac{11\sqrt{2}}{3}$ | 89) $13\sqrt{6}$ |
| 90) $\frac{13\sqrt{6}}{3}$ | 91) 117° | 92) 72° | 93) 157° |
| 94) 174° | 95) 135° | 96) 14 | 97) 35 |
| 98) 55 | 99) 19 | 100) 11 | 101) 31 |
| 102) 7 | 103) 33 | 104) 11 | 105) 180° |
| 106) 43° | 107) 75° | 108) 51° | 109) $x = 14, y = 10$ |
| 110) $x = 0, y = 6$ | 111) $x = 0, y = 11$ | 112) $x = 3, y = 12$ | 113) 120° |
| 114) 235° | 115) 65° | 116) 167° | 117) 155° |
| 118) 9 | 119) 0 | 120) 8 | 121) 5 |
| 122) 7 | 123) 105° | 124) 45° | 125) 110° |
| 126) 40° | 127) 105° | 128) 130° | 129) 88° |
| 130) 200° | 131) 201° | 132) 240° | 133) 40° |
| 134) 56° | 135) 44° | 136) 55° | 137) 65° |
| 138) 10 | 139) 2 | 140) 8 | 141) 11 |
| 142) 8 | 143) 55 | 144) 23 | 145) 18 |
| 146) 57° | 147) 79° | 148) 45° | 149) 311° |
| 150) 10.3 | 151) 6.7 | 152) 15.1 | 153) 14.6 |
| 154) 6.6 | 155) 9.9 | 156) 10.7 | 157) 7.1 |
| 158) 108° | 159) 35° | 160) 76° | 161) 55° |
| 162) $x = 0, y = 15$ | 163) $x = 0, y = 15$ | 164) $x = 8, y = 0$ | 165) $x = 0, y = 5$ |
| 166) 96° | 167) 103° | 168) 45° | 169) 140° |

- 170) 8
174) 216 mi^2 ; 378 mi^2
177) 194.25 km^2 ; 278.25 km^2
180) 360 ft^2 ; 580 ft^2
184) 175.5 in^2 ; 237 in^2
187) 203.4 km^2 ; 297 km^2
190) 604.8 mi^3
- 171) 10
175) None; $60.84\pi \text{ mi}^2$
178) 192 yd^2 ; 523.2 yd^2
181) 216 m^2 ; 264 m^2
185) $270.6\pi \text{ cm}^2$; $391.6\pi \text{ cm}^2$
188) 4118.4 mi^3
191) 120 km^3
- 172) 4
176) $24.4\pi \text{ yd}^2$; $28.4\pi \text{ yd}^2$
179) 148.8 m^2 ; 184.8 m^2
182) 144 ft^2 ; 179 ft^2
186) 24.4 in^2 ; 36.4 in^2
189) 125 in^3
- 173) 350 in^2 ; 414.5 in^2
- 192) $\frac{3}{4}$
193) $\frac{4}{5}$
196) $\frac{4}{5}$
197) quadrilateral
- 194) $\frac{9}{41}$
198) rhombus
202) trapezoid
206) trapezoid
- 195) $\frac{3}{5}$
199) isosceles trapezoid
203) parallelogram
207) $\frac{4}{5}$
211) $\frac{4}{5}$
215) $\frac{4}{3}$
- 200) square
204) quadrilateral
208) $\frac{35}{37}$
212) $\frac{21}{29}$
216) 12.5
- 201) rhombus
205) square
209) $\frac{20}{29}$
213) $\frac{3}{4}$
217) 36.9
- 210) $\frac{3}{5}$
214) $\frac{4}{3}$
218) 42.5
222) 43.6
226) 34°
230) 27°
234) 90°
238) 86°
242) 64°
246) 80°
250) 55°
254) 118°
258) 110°
262) 121°
266) 80°
270) 96°
274) 96°
278) 238°
282) 11
286) 214°
290) 10
294) 9
298) $\frac{169\pi}{3} \text{ ft}^2$
302) $75\pi \text{ m}^2$
306) $32\pi \text{ m}^3$
310) 4
314) 14
318) 7
322) 5
326) 18
- 219) 8.2
223) 6.9
227) 28°
231) 21°
235) 39°
239) 86°
243) 112°
247) 75°
251) 50°
255) 121°
259) 60°
263) 68°
267) 110°
271) 155°
275) 162°
279) 130°
283) 2
287) 152°
291) 12
295) 6
299) $160\pi \text{ ft}^2$
303) $288\pi \text{ ft}^3$
307) 9
311) 6
315) 8
319) 7
323) 4
327) 13
- 220) 11.3
224) 55.8
228) 65°
232) 39°
236) 34°
240) 150°
244) 45°
248) 45°
252) 35°
256) 108°
260) 55°
264) 71°
268) 90°
272) 140°
276) 90°
280) 11
284) 2
288) 225°
292) 20
296) 3
300) $\frac{125\pi}{2} \text{ ft}^2$
304) $1452\pi \text{ ft}^3$
308) 7
312) 18
316) 0
320) 11
324) 2
328) $\left(-3\frac{1}{2}, 0\right)$
- 221) 10.7
225) 15°
229) 37°
233) 29°
237) 40°
241) 204°
245) 71°
249) 83°
253) 125°
257) 95°
261) 42°
265) 100°
269) 55°
273) 207°
277) 105°
281) 2
285) 162°
289) 88°
293) 36
297) 5
301) $\frac{567\pi}{2} \text{ cm}^2$
305) $1210\pi \text{ cm}^3$
309) 11
313) 10
317) 2
321) 19
325) 29
329) $(-1, 3)$

$$330) \left(1, -\frac{1}{2}\right)$$

$$334) 2\sqrt{5}$$

$$338) 6.3$$

$$342) 22$$

$$331) \left(3\frac{1}{2}, 6\right)$$

$$335) 5\sqrt{2}$$

$$339) 7$$

$$343) 11$$

$$332) 4\sqrt{5}$$

$$336) 15$$

$$340) 11$$

$$344) 31$$

$$333) \sqrt{37}$$

$$337) 18$$

$$341) 10$$