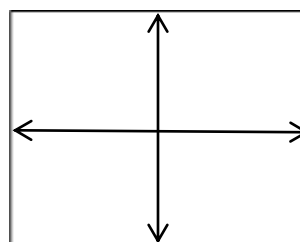
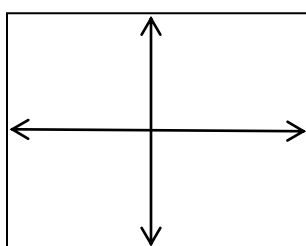
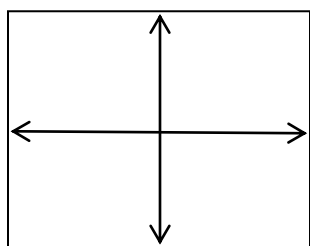


4.1, 4.3 Trig Review 1112

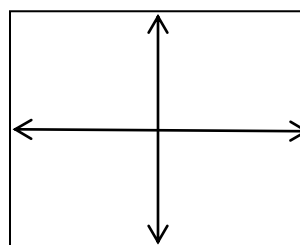
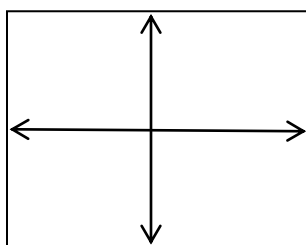
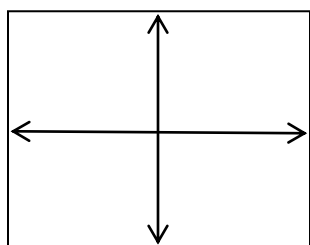
Answers to radian questions should be in radians (fractional form with π in answer); answer to degree questions in degrees; unless otherwise specified

Sketch the angle in standard position using a directional arrow. Calculate and sketch a positive and a negative coterminal angle.

1. 58°



2. $\frac{7\pi}{8}$



For each angle, calculate a complementary and supplementary angle

3. 77°

4. $\frac{\pi}{4}$

5. Convert to decimal degrees

a. $65^{\circ}15'18''$ _____

b. $315^{\circ}54'36''$ _____

6. Convert to degrees/minutes/seconds

a. 44.52 _____

b. 197.94 _____

7. Convert to radians (fractional answer with π)

a. 35° _____

b. 375° _____

8. Convert to degrees

a. $\frac{5\pi}{4}$ _____

b. $\frac{-\pi}{6}$ _____

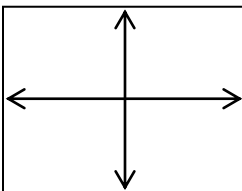
9. Arc Length calculations; find the missing measure (radians not in terms of π). State units.

a. Given radius = 2 inches; $\theta = 5$ radians; find the arc length, s _____

b. Given arc length, $s = 10$ cm; $\theta = 2$ radians; find the radius, r _____

Given (x,y) point on the coordinate, graph the right triangle (if possible), and evaluate the six trig functions. If the function is undefined, write "undefined".

10. $P(3,4)$



sin = _____

cos = _____

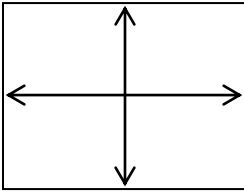
tan = _____

csc = _____

sec = _____

cot = _____

11. $P(-2, -4)$



$\sin =$ _____

$\cos =$ _____

$\tan =$ _____

$\csc =$ _____

$\sec =$ _____

$\cot =$ _____

12. Evaluate without using a calculator (use ASTC and Mr. Pythagoras). Answers in rationalized fractions.

a. Find $\sin \theta$ and $\tan \theta$ if $\cos \theta = -\frac{5}{9}$ and $\csc \theta < 0$ _____

b. Find $\csc \theta$ and $\cot \theta$ if $\sec \theta = \frac{13}{11}$ and $\tan \theta > 0$ _____

13. Find the **two** values for θ that satisfy the equation.

a. $\tan \theta = -\frac{\sqrt{3}}{3}$ _____

b. $\cos \theta = \frac{\sqrt{2}}{2}$ _____

c. $\sec \theta = \text{Und}$ _____
