CORRECTIVE ASSIGNMENT

Find the RATIO of the trig function indicated. Do NOT find the actual measure of the angle!
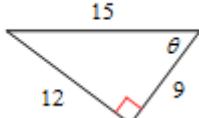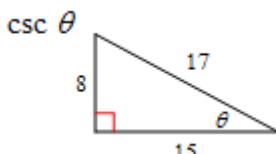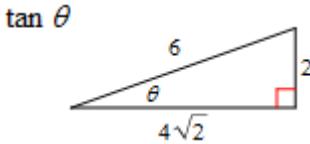
1. $\sec\theta$	2. $\csc\theta$	3. $\tan\theta$	4. $\sin\theta$
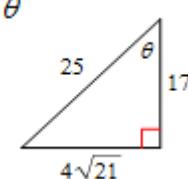
Use the given point on the terminal side of the angle θ to find the trigonometric function indicated.

5. $\csc\theta$
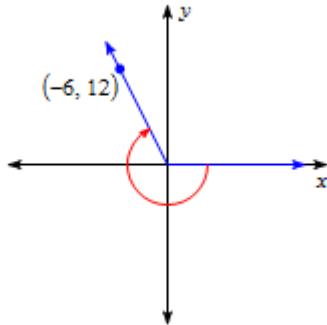
6. $\sec\theta$
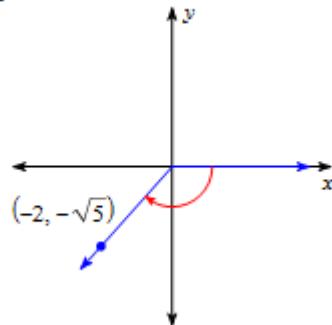
Draw the reference triangle. Find the EXACT value of the trig ratio for θ.

7. $\cot\theta$ for $\left(-\sqrt{19},-9\right)$

8. $\tan\theta$ for $\left(-2\sqrt{3},-2\right)$

Draw the reference triangle. Find the EXACT value of the trig ratio for θ.

9. Given $\sec\theta = -\dfrac{17}{15}$ and $\sin\theta$ is positive.
    Find $\tan\theta$.

10. Given $\csc\theta = -\dfrac{9}{7}$ where $\dfrac{3\pi}{2} < \theta < 2\pi$.
     Find $\tan\theta$.

Find the reference angle.			
11. 200°	12. 340°	13. 104°	14. −136°

Find the exact value WITHOUT USING THE UNIT CIRCLE AND TABLE!			
15. $\sin 240°$	16. $\cos(-225)°$	17. $\tan 315°$	18. $\csc(-90)°$

Find the exact value WITHOUT USING THE UNIT CIRCLE AND TABLE!			
19. $\cos\frac{3\pi}{4}$	20. $\tan(-\frac{\pi}{6})$	21. $\sin\frac{7\pi}{4}$	22. $\cot(-\frac{3\pi}{4})$

If $0° \le \theta \le 360°$, then find θ WITHOUT USING THE UNIT CIRCLE AND TABLE!			
23. $\sin\theta = \frac{\sqrt{3}}{2}$	24. $\cos\theta = -\frac{\sqrt{2}}{2}$	25. $\tan\theta = -\sqrt{3}$	26. $\sec\theta = -2$

27. Find all six trig functions. Fill in the table. **WITHOUT USING THE UNIT CIRCLE AND TABLE!**
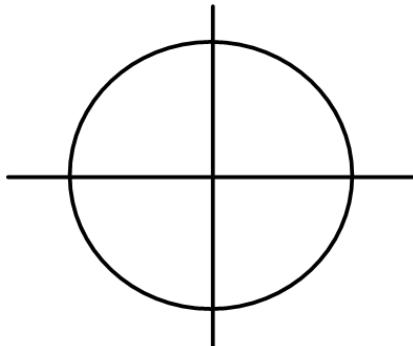
radians	$\sin\theta$	$\cos\theta$	$\tan\theta$	$\csc\theta$	$\sec\theta$	$\cot\theta$
$\dfrac{7\pi}{4}$						

Use the table to find the EXACT value USING THE UNIT CIRCLE AND TABLE!			
28. $\csc 120°$	29. $\sin\frac{11\pi}{6}$	30. $\cot\left(-\frac{3\pi}{2}\right)$	31. $\cot(-90°)$

Use the table to find the angle where $0° \le \theta \le 360°$ USING THE UNIT CIRCLE AND TABLE!			
32. $\cos\theta = -\frac{\sqrt{2}}{2}$	33. $\csc\theta = \frac{2\sqrt{3}}{3}$	34. $\cot\theta = $ undefined	35. $\sec\theta = 2$

Use the calculator to find the APPROXIMATE value of each. Round to the nearest hundredth.			
36. $\csc 70°$	37. $\cot -120°$	38. $\sec 150°$	39. $\sin 66°$

| Use the calculator to find each angle where $0° \leq \theta \leq 360°$. Round to the nearest hundredth.		
40. $\sin \theta = 0.95105$	41. $\sec \theta = -1.36$	42. $\cos \theta = 0.46$

APPLICATION

Fill in every angle measure in degrees, radians, and give the coordinates of the point on the unit circle.
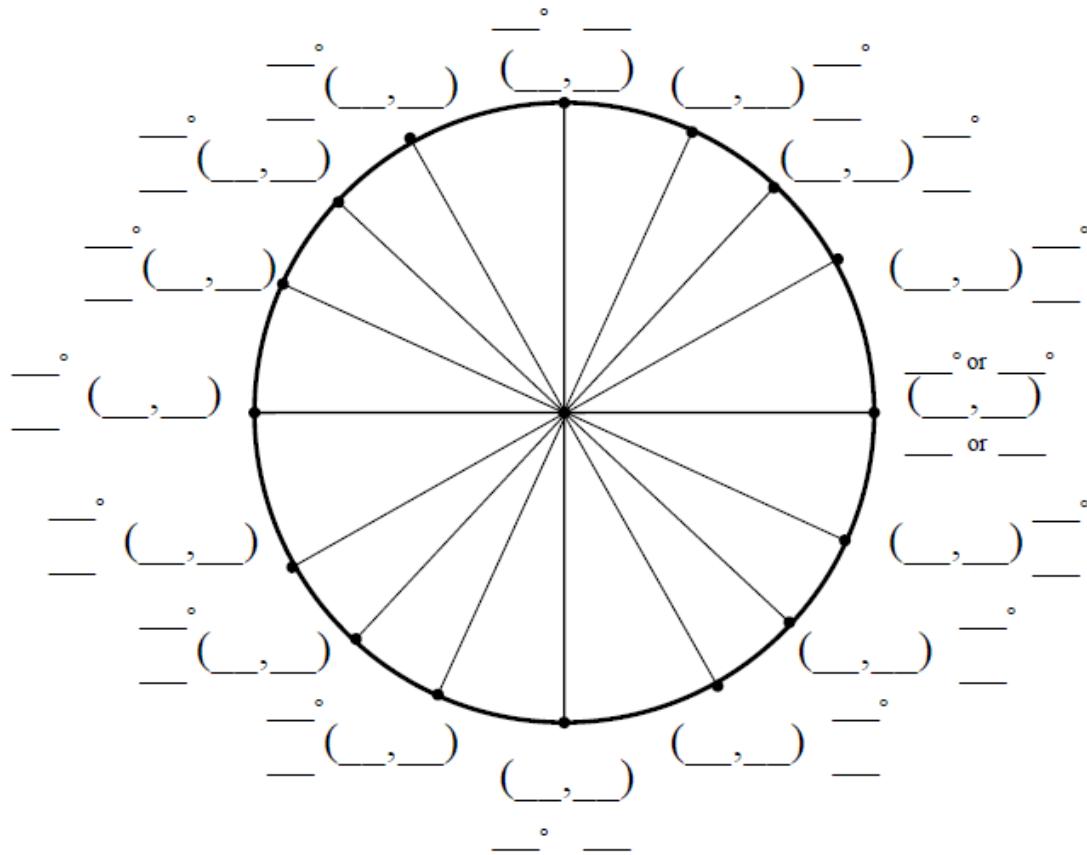
Fill in the missing parts of the table.

degrees	radians	sin θ	cos θ	tan θ	csc θ	sec θ	cot θ	- degree	- radian
	$\dfrac{\pi}{3}$								
		$\dfrac{\sqrt{3}}{2}$	$-\dfrac{1}{2}$						
								$-120°$	
		-1							

SKILLZ REVIEW!		
1. $\sin x\,(\sin x - 1)$	2. $(\tan\theta + 2)(\tan\theta - 3)$	3. $\dfrac{\left(\frac{1}{\cos x}\right)}{\left(\frac{1}{\sin x}\right)}$
4. $\dfrac{1}{\tan x} + \dfrac{2}{5}$	5. $\dfrac{\sin x + \cos x}{\sin x}$	6. $\sin x \cdot \csc x$

ANSWERS TO UNIT 9 CORRECTIVE ASSIGNMENT!

1. $\dfrac{5}{3}$	2. $\dfrac{17}{8}$	3. $\dfrac{\sqrt{2}}{4}$	4. $\dfrac{4\sqrt{21}}{25}$	5. $\dfrac{\sqrt{5}}{2}$	6. $-\dfrac{3}{2}$
7. $\dfrac{\sqrt{19}}{9}$	8. $\dfrac{\sqrt{3}}{3}$	9. $-\dfrac{8}{15}$	10. $-\dfrac{7\sqrt{2}}{8}$	11. $20°$	12. $20°$
13. $76°$	14. $44°$	15. $-\dfrac{\sqrt{3}}{2}$	16. $-\dfrac{\sqrt{2}}{2}$	17. -1	18. -1
19. $-\dfrac{\sqrt{2}}{2}$	20. $-\dfrac{\sqrt{3}}{3}$	21. $\dfrac{\sqrt{2}}{2}$	22. 1	23. $60°, 120°$	24. $135°, 225°$

25. $120°, 300°$	26. $120°, 240°$	27.	28. $\dfrac{2\sqrt{3}}{3}$

radians	$\sin\theta$	$\cos\theta$	$\tan\theta$	$\csc\theta$	$\sec\theta$	$\cot\theta$
$\dfrac{7\pi}{4}$	$-\dfrac{\sqrt{2}}{2}$	$\dfrac{\sqrt{2}}{2}$	-1	$-\sqrt{2}$	$\sqrt{2}$	-1

29. $-\dfrac{1}{2}$	30. 0	31. 0	32. $135°, 225°$	33. $60°, 120°$	34. $0°/360°, 180°$
35. $60°, 300°$	36. 1.06	37. 0.58	38. -1.15	39. 0.91	40. $72°, 108°$

41. $137.33°, 222.67°$	42. $62.61°, 297.39°$	

degrees	radians	$\sin\theta$	$\cos\theta$	$\tan\theta$	$\csc\theta$	$\sec\theta$	$\cot\theta$	- degree	- radian
$60°$	$\dfrac{\pi}{3}$	$\dfrac{\sqrt{3}}{2}$	$\dfrac{1}{2}$	$\sqrt{3}$	$\dfrac{2\sqrt{3}}{3}$	2	$\dfrac{\sqrt{3}}{3}$	$-300°$	$-\dfrac{5\pi}{3}$
$120°$	$\dfrac{2\pi}{3}$	$\dfrac{\sqrt{3}}{2}$	$\dfrac{-1}{2}$	$-\sqrt{3}$	$\dfrac{2\sqrt{3}}{3}$	-2	$\dfrac{-\sqrt{3}}{3}$	$-240°$	$-\dfrac{4\pi}{3}$
$240°$	$\dfrac{4\pi}{3}$	$\dfrac{-\sqrt{3}}{2}$	$\dfrac{-1}{2}$	$\sqrt{3}$	$\dfrac{-2\sqrt{3}}{3}$	-2	$\dfrac{\sqrt{3}}{3}$	$-120°$	$-\dfrac{2\pi}{3}$
$180°$	π	0	-1	0	Und	-1	Und	$-180°$	$-\pi$

Skillz Review

1. $\sin^2 x - \sin x$	2. $\tan^2 x - \tan x - 6$	3. $\tan x$	4. $\dfrac{5 + 2\tan x}{5\tan x}$	5. $1 + \cot x$	6. 1