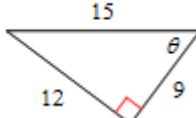


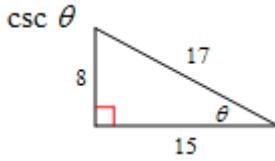
CORRECTIVE ASSIGNMENT

Find the RATIO of the trig function indicated. Do NOT find the actual measure of the angle!

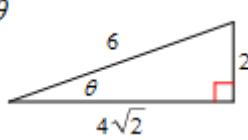
1. $\sec \theta$



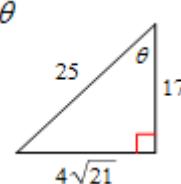
2. $\csc \theta$



3. $\tan \theta$

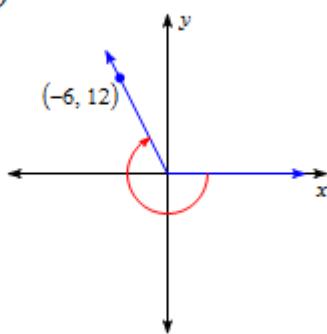


4. $\sin \theta$

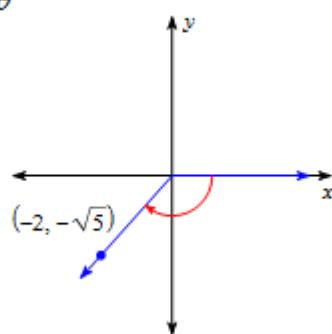


Use the given point on the terminal side of the angle θ to find the trigonometric function indicated.

5. $\csc \theta$



6. $\sec \theta$



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

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

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

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

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

10. Given $\csc \theta = -\frac{9}{7}$ where $\frac{3\pi}{2} < \theta < 2\pi$.
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. $\sin 240^\circ$

16. $\cos(-225)^\circ$

17. $\tan 315^\circ$

18. $\csc(-90)^\circ$

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 $0^\circ \leq \theta \leq 360^\circ$, then find θ WITHOUT USING THE UNIT CIRCLE AND TABLE!

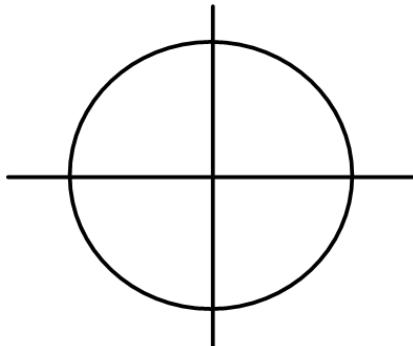
23. $\sin \theta = \frac{\sqrt{3}}{2}$

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	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$
$\frac{7\pi}{4}$						

Use the table to find the EXACT value USING THE UNIT CIRCLE AND TABLE!

28. $\csc 120^\circ$

29. $\sin \frac{11\pi}{6}$

30. $\cot\left(-\frac{3\pi}{2}\right)$

31. $\cot(-90^\circ)$

Use the table to find the angle where $0^\circ \leq \theta \leq 360^\circ$ USING THE UNIT CIRCLE AND TABLE!

32. $\cos \theta = -\frac{\sqrt{2}}{2}$

33. $\csc \theta = \frac{2\sqrt{3}}{3}$

34. $\cot \theta = \text{undefined}$

35. $\sec \theta = 2$

Use the calculator to find the APPROXIMATE value of each. Round to the nearest hundredth.

36. $\csc 70^\circ$

37. $\cot -120^\circ$

38. $\sec 150^\circ$

39. $\sin 66^\circ$

Use the calculator to find each angle where $0^\circ \leq \theta \leq 360^\circ$. Round to the nearest hundredth.

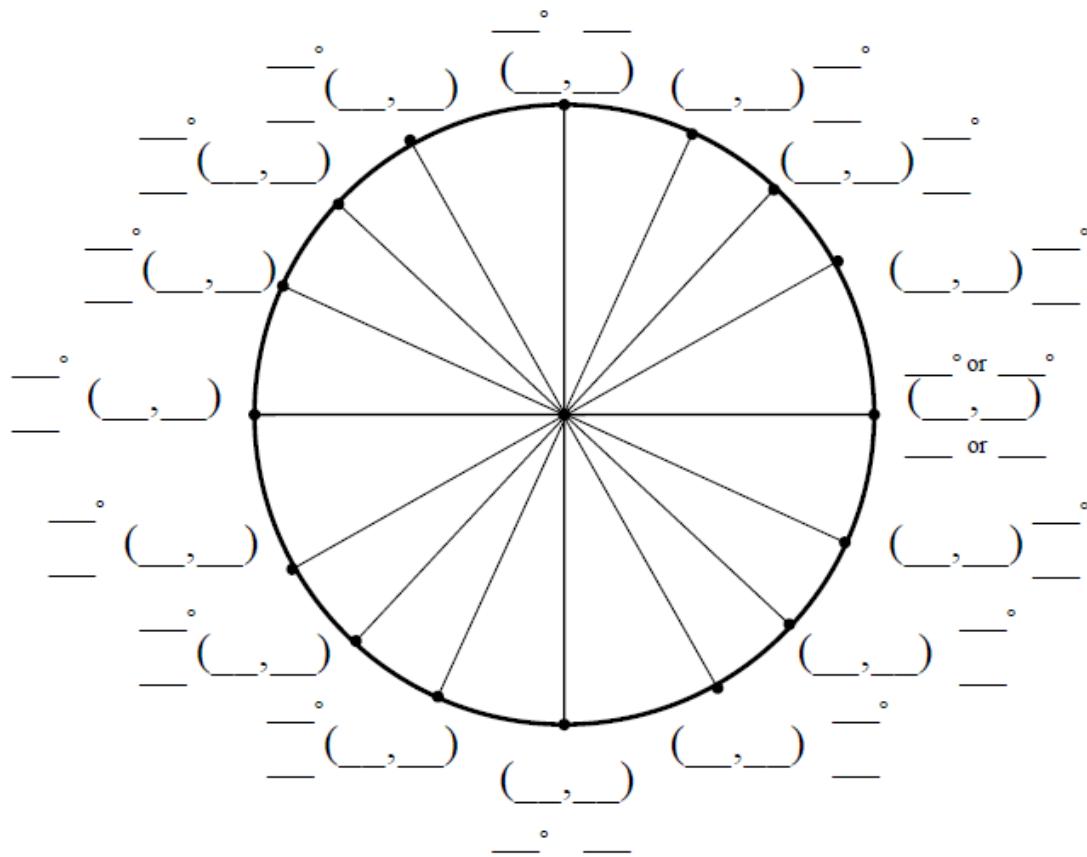
40. $\sin \theta = 0.95105$

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	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$	- degree	- radian
	$\frac{\pi}{3}$								
		$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$						
								-120°	
			-1						

SKILLZ REVIEW!

1. $\sin x (\sin x - 1)$

2. $(\tan \theta + 2)(\tan \theta - 3)$

3. $\frac{\left(\frac{1}{\cos x}\right)}{\left(\frac{1}{\sin x}\right)}$

4. $\frac{1}{\tan x} + \frac{2}{5}$

5. $\frac{\sin x + \cos x}{\sin x}$

6. $\sin x \cdot \csc x$

ANSWERS TO UNIT 9 CORRECTIVE ASSIGNMENT!

1. $\frac{5}{3}$	2. $\frac{17}{8}$	3. $\frac{\sqrt{2}}{4}$	4. $\frac{4\sqrt{21}}{25}$	5. $\frac{\sqrt{5}}{2}$	6. $-\frac{3}{2}$														
7. $\frac{\sqrt{19}}{9}$	8. $\frac{\sqrt{3}}{3}$	9. $-\frac{8}{15}$	10. $-\frac{7\sqrt{2}}{8}$	11. 20°	12. 20°														
13. 76°	14. 44°	15. $-\frac{\sqrt{3}}{2}$	16. $-\frac{\sqrt{2}}{2}$	17. -1	18. -1														
19. $-\frac{\sqrt{2}}{2}$	20. $-\frac{\sqrt{3}}{3}$	21. $\frac{\sqrt{2}}{2}$	22. 1	23. $60^\circ, 120^\circ$	24. $135^\circ, 225^\circ$														
25. $120^\circ, 300^\circ$	26. $120^\circ, 240^\circ$	27.			28. $\frac{2\sqrt{3}}{3}$														
		<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>radians</th><th>$\sin \theta$</th><th>$\cos \theta$</th><th>$\tan \theta$</th><th>$\csc \theta$</th><th>$\sec \theta$</th><th>$\cot \theta$</th></tr> </thead> <tbody> <tr> <td>$\frac{7\pi}{4}$</td><td>$-\frac{\sqrt{2}}{2}$</td><td>$\frac{\sqrt{2}}{2}$</td><td>-1</td><td>$-\sqrt{2}$</td><td>$\sqrt{2}$</td><td>-1</td></tr> </tbody> </table>	radians	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$	$\frac{7\pi}{4}$	$-\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	-1	$-\sqrt{2}$	$\sqrt{2}$	-1			
radians	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$													
$\frac{7\pi}{4}$	$-\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	-1	$-\sqrt{2}$	$\sqrt{2}$	-1													
29. $-\frac{1}{2}$	30. 0	31. 0	32. $135^\circ, 225^\circ$	33. $60^\circ, 120^\circ$	34. $0^\circ/360^\circ, 180^\circ$														
35. $60^\circ, 300^\circ$	36. 1.06	37. 0.58	38. -1.15	39. 0.91	40. $72^\circ, 108^\circ$														
41. $137.33^\circ, 222.67^\circ$	42. $62.61^\circ, 297.39^\circ$																		

degrees	radians	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$	- degree	- radian
60°	$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$	$\frac{2\sqrt{3}}{3}$	2	$\frac{\sqrt{3}}{3}$	-300°	$-\frac{5\pi}{3}$
120°	$\frac{2\pi}{3}$	$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	$-\sqrt{3}$	$\frac{2\sqrt{3}}{3}$	-2	$-\frac{\sqrt{3}}{3}$	-240°	$-\frac{4\pi}{3}$
240°	$\frac{4\pi}{3}$	$-\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$	$\sqrt{3}$	$-\frac{2\sqrt{3}}{3}$	-2	$\frac{\sqrt{3}}{3}$	-120°	$-\frac{2\pi}{3}$
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. $\frac{5+2 \tan x}{5 \tan x}$	5. $1 + \cot x$	6. 1
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