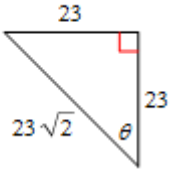
9.1 Reference Triangles and Reciprocal Trig Functions **NAME:**_____

Corrective Assignment

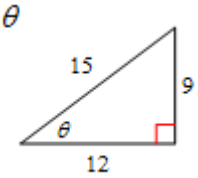
DATE:_____

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

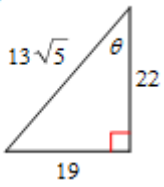
1. $\csc\theta$



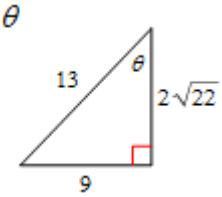
2. $\cot\theta$



3. $\cos\theta$

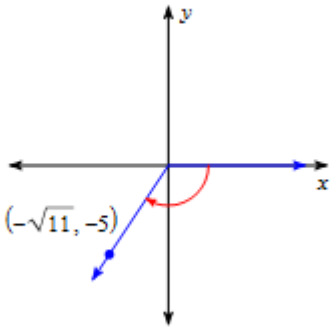


4. $\sec\theta$

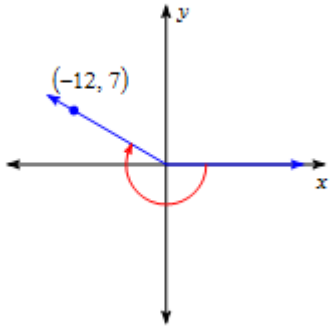


Use the given point on the terminal side of the angle θ to find the trigonometric function indicated.

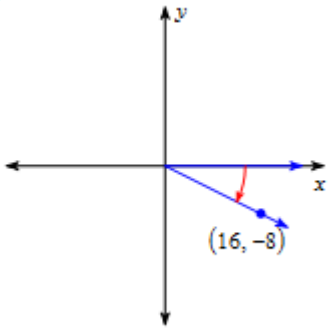
5. $\cos\theta$



6. $\tan\theta$



7. $\cot\theta$



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

8. $\sin\theta$ for $(2, \sqrt{5})$

9. $\csc\theta$ for $(-4, 3)$

10. $\sec\theta$ for $(2\sqrt{3}, -2)$

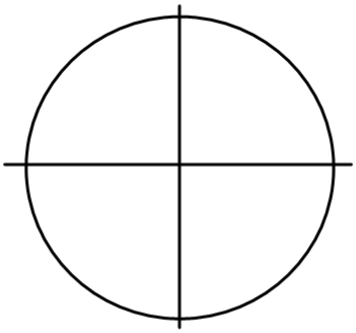
Let θ be an angle in standard position. In which quadrant or quadrants can θ lie under the given conditions?

11. $\csc\theta$ is negative

12. $\sin\theta > 0$

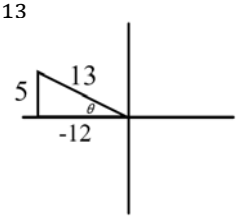
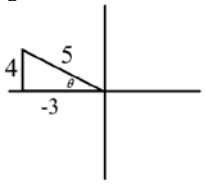
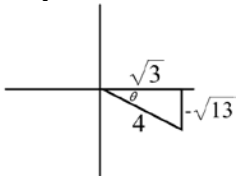
13. $\cos\theta$ and $\sin\theta$ have the same sign

14. $\cos\theta$ is negative and $\tan\theta$ is positive



Draw the reference triangle. Find the EXACT value of the trig ratio for θ.	
15. Given $\cot\theta = -\frac{12}{5}$ in quadrant II. Find $\sin\theta$.	16. Given $\csc\theta = \frac{5}{4}$ where $\frac{\pi}{2} < \theta < \pi$. Find $\tan\theta$.
17. Given $\cos\theta = \frac{\sqrt{3}}{4}$ where $\frac{3\pi}{2} < \theta < 2\pi$. Find $\sin\theta$.	18. Given $\sec\theta = -\frac{15}{9}$ where $\pi < \theta < \frac{3\pi}{2}$. Find $\tan\theta$.

ANSWERS TO 9.1 CORRECTIVE ASSIGNMENTS

1. $\sqrt{2}$	2. $\frac{4}{3}$	3. $\frac{22\sqrt{5}}{65}$	4. $\frac{13\sqrt{22}}{44}$
5. $-\frac{\sqrt{11}}{6}$	6. $-\frac{7}{12}$	7. -2	8. $\frac{\sqrt{5}}{3}$
9. $\frac{5}{3}$	10. $\frac{2\sqrt{3}}{3}$	11. III and IV	12. I and II
13. I and III	14. III	15. $\frac{5}{13}$ 	16. $-\frac{4}{3}$ 
17. $-\frac{\sqrt{13}}{4}$ 	18. $\frac{12}{9} = \frac{4}{3}$