SM2H

Name:_____ Period:_____

Unit 9 Quiz Review

Convert each radian to a degrees and degree measure to radians. **Show all your work.**

1. $\frac{5\pi}{9}$

2. $185°$

Find a coterminal angle between $\mathbf{0°}$ **and** $\mathbf{360°}$**.**

3. $810°$

4. $-200°$

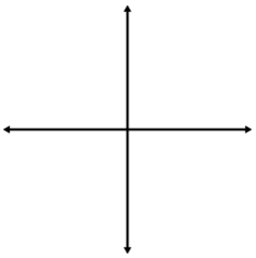
Find a coterminal angle **between** $\mathbf{0}$ **and** $\mathbf{2\pi}$**.**

5. $\frac{-4\pi}{7}$

6. $\frac{23\pi}{10}$

Draw and label the given angle and find the reference angle.

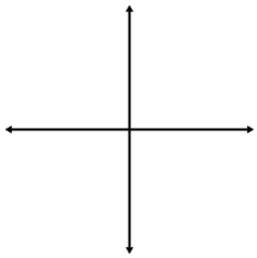
7. $\frac{10\pi}{13}$



q = _____

R = _____

8. $-195°$



q = _____

R = _____

Determine the Quadrant of each angle.

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

10. $290°$

Find the **angles** of the given trigonometric functions between $0 \geq \theta > 360°$ and $0 \geq \theta > 2\pi$.

11. $\sin q = \frac{\sqrt{2}}{2}$

12. $\cos q = = -\frac{\sqrt{3}}{2}$

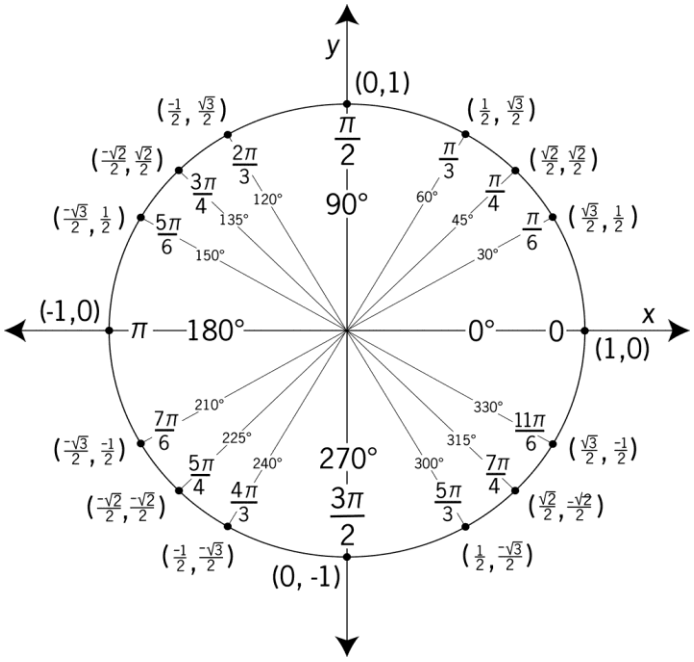
13. $\sin q = 0$

14. $\cos q = -1$

15. Find the Quadrant where $\sin < 0 \text{ and } \cos > 0$.

16. Find the Quadrant where $\sin < 0 \text{ and } \cos < 0$.

*Remember All Students Take Calculus



Use the unit circle to find the **exact** values of each trigonometric function.

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

18. $\sin\frac{7\pi}{4}$

19. $\cos(300°)$

20. $\tan(225°)$

21. $\csc 210°$

22. $\sec\frac{5\pi}{6}$

23. $\tan\frac{5\pi}{3}$

24. $\cos(-135°)$

25. $\cot(0°)$

26. $\tan\pi$

27. $\csc\frac{3\pi}{2}$

28. $\sec(90°)$