Pre-Calculus w/Trig Mathews/Peto
Finding Exact Trig values Day 15

Name _____
Date _____ Period _____

OBJECTIVE: You will be able to find the remaining five trigonometric values given one value and a quadrant.

Find the remaining 5 Trigonometric values for each given.

1. $\sin\theta = \frac{-4}{5}$, and θ is in Quadrant IV

2. $\cos\theta = \frac{-1}{2}$, and θ is in Quadrant II

3. $\tan\theta = 2$, and θ is in Quadrant I

4. $\sec\theta = \sqrt{3}$, and θ is in Quadrant IV

Find all six trigonometric values for the given angle or radian measure.

5. $x = -\frac{3\pi}{4}$

6. $x = \pi$

7. $\theta = -210^\circ$

8. $x = \frac{\pi}{6}$

9. The terminal side of an angle θ in standard position coincides with the line $y = -3x$ and lies in Quadrant II. Find the six trigonometric functions of θ.

Multiple Answer:
For each of the following, choose the radian or angle measures that are correct. **Multiple correct answers per question are possible.**

10. $\sin x = -\frac{\sqrt{3}}{2}$

a. $-\frac{5\pi}{3}$ b. $-\frac{4\pi}{3}$ c. $-\frac{\pi}{3}$ d. $\frac{4\pi}{3}$ e. $\frac{5\pi}{3}$

11. $\cos\theta = \frac{\sqrt{2}}{2}$

a. -135° b. -45° c. 135° d. 225° e. 315°

12. $\sec\theta = -2$

a. -240° b. -210° c. 240° d. 300° e. 330°