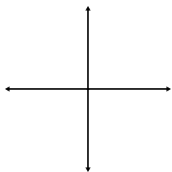


Secondary Math III
Trigonometry for any Angle
Assignment 6.2

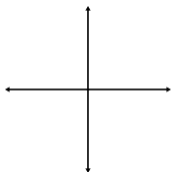
Name _____
Period _____

Draw the following angles in standard position:

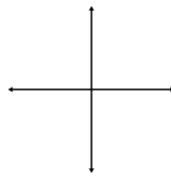
1. 120°



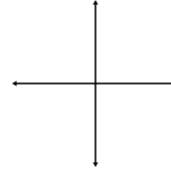
2. 420°



3. -135°



4. -750°



Find one positive and one negative angle that is coterminal with the given angle.

4. 135°

5. 210°

6. -115°

Find the measure of the reference angle for the given angles.

7. 60°

8. 225°

9. 318°

10. -75°

Find \sin , \cos , and \tan if the terminal side of θ goes through the given point.

11. $(-3, 4)$

12. $(5, 15)$

13. Find $\cos \theta$ if $\sin \theta = \frac{\sqrt{3}}{2}$ and θ is in Quadrant II.

14. Find $\tan \theta$ if $\cos \theta = \frac{-2}{5}$ and θ is in Quadrant III.

Evaluate the following without using a calculator. (HINT: use quadrant and reference angle)

15. $\sin 135^\circ$

16. $\cos 330^\circ$

17. $\tan 150^\circ$

Practice ACT:

18. If $\sin \alpha = \frac{12}{13}$, and $\cos \alpha = \frac{5}{13}$, then $\tan \alpha = ?$

- A. $\frac{5}{12}$
- B. $\frac{7}{13}$
- C. $\frac{12}{5}$
- D. $\frac{17}{13}$
- E. $\frac{60}{13}$

19. If $0^\circ < x^\circ < 90^\circ$ and $\sin x = \frac{1}{2}$, then $\cos x = ?$

- A. $\frac{1}{2}$
- B. $\frac{\sqrt{3}}{2}$
- C. 2
- D. $\frac{\sqrt{3}}{3}$
- E. $\frac{2\sqrt{3}}{3}$