

## وحارس البكالوريا BACCALAUREATE SCHOOLS

Name:	
Date:	
Grade 10	

## **Graded Worksheet**

## **Trigonometric Functions and Real Numbers**

Find the sine and cosine of each angle.

4. 
$$\frac{\pi}{6}$$

5. 
$$\frac{3\pi}{4}$$

**6.** 
$$\frac{5\pi}{6}$$

Find the coordinate of the terminal point for each angle.

7. 
$$\frac{2\pi}{3}$$

**8.** 
$$\frac{\pi}{2}$$

9. 
$$\frac{5\pi}{3}$$

Solve.

**13.** What is the  $\sin \theta$  if  $\cos \theta = \frac{-6}{10}$  and  $\theta$  is in Quadrant II?

**14.** What is the cos  $\theta$  if the sin  $\theta = \frac{-16}{20}$  and  $\theta$  is in Quadrant III?

What is the tangent of each angle?

**15.** 
$$\frac{11\pi}{6}$$

16. 
$$\frac{\pi}{4}$$

17. 
$$\frac{5\pi}{3}$$

Find the secant, cosecant, and cotangent for each angle.

**21.** 
$$\frac{\pi}{4}$$

**22.** 
$$\frac{\pi}{6}$$

**23.** 
$$\frac{3\pi}{4}$$

27. Alejandro said the cotangent of 180° is 0. Is he correct? Explain.

28. Alex is standing at the 2 o'clock position on a circle in the center of a soccer field. He passes the ball to a player who is located at the 10 o'clock position. The radii to the positions of the two players forms a central angle of the circle. What are the degree and radian measures of the angle?