



**Trigonometry Practice Test**  
Unit 1: The Six Trigonometric Functions

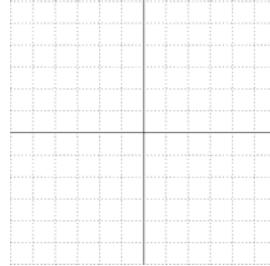
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve for  $x$  in the following right triangle.



2. Graph the line  $3x - 2y = 6$ .



3. Find the distance between the points  $(4, -3)$  and  $(-2, 5)$ .

4. Find  $y$  so that the distance between  $(2, y)$  and  $(3, -2)$  is  $\sqrt{10}$ .

5. Find sine, cosine, and tangent of  $270^\circ$ .

6. Name the quadrant in which  $\theta$  will lie if  $\sin \theta < 0$  and  $\tan \theta < 0$ .

7. Find the six trig functions of  $\theta$  if the point  $(-4, 3)$  is on the terminal side of  $\theta$ .

8. If  $\sin \theta = -\frac{2}{3}$  and  $\theta$  terminates in QIII, find  $\cos \theta$ ,  $\tan \theta$  and  $\csc \theta$ .