## 9-4 Circular Functions

Time> Start: \_\_\_\_\_ Finish: \_\_\_\_ Total Time = \_\_\_\_

Find the values of the sine and cosine functions of an angle in standard position with measure  $\theta$  if the point with the given coordinates lies on its terminal side.

1. Coordinates (3, 4) Sin  $\theta =$  Cos  $\theta =$  \_\_\_\_

2. Coordinates (4, 3)

Sin  $\theta =$  \_\_\_\_ Cos  $\theta =$  \_\_\_\_

Coordinates (6, 8) 3.

Sin  $\theta =$  \_\_\_\_ Cos  $\theta =$  \_\_\_\_

4. Coordinates (9, 12)

Sin  $\theta =$  Cos  $\theta =$ 

Find sin  $\theta$  when cos  $\theta = \frac{12}{13}$  and the terminal side of  $\theta$  is in the 1<sup>st</sup> quadrant. 5.

Find sin  $\theta$  when cos  $\theta = \frac{3}{5}$  and the terminal side of  $\theta$  is in the 1<sup>st</sup> quadrant. 6.

Find sin  $\theta$  when cos  $\theta = \frac{5}{13}$  and the terminal side of  $\theta$  is in the 1<sup>st</sup> quadrant. 7.

If the sin  $\theta = \frac{3}{4}$ , what is the csc  $\theta$ ? 8.

If the cos  $\theta = \frac{3}{10}$ , what is the sec  $\theta$ ? 9.

If the tan  $\theta = \frac{4}{5}$ , what is the cot  $\theta$ ? 10.

## **SAT Questions**

- \_\_\_\_\_11. Three consecutive integers are listed in increasing order.

  If their sum is 102, what is the second integer in the list?

  A. 28

  B. 29

  C. 33
  - D. 34E. 35

\_\_\_\_13. If  $(x-2)^2 = 25$ , and x < 0, what is the value of x?