

## 8-4 Circular Functions

Name \_\_\_\_\_

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.

- Coordinates (3, 4)      Sin  $\theta =$  \_\_\_\_\_      Cos  $\theta =$  \_\_\_\_\_
- Coordinates (4, 3)      Sin  $\theta =$  \_\_\_\_\_      Cos  $\theta =$  \_\_\_\_\_
- Coordinates (6, 8)      Sin  $\theta =$  \_\_\_\_\_      Cos  $\theta =$  \_\_\_\_\_
- 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.
- Find sin  $\theta$  when cos  $\theta = \frac{3}{5}$  and the terminal side of  $\theta$  is in the 1<sup>st</sup> quadrant.
- Find sin  $\theta$  when cos  $\theta = \frac{5}{13}$  and the terminal side of  $\theta$  is in the 1<sup>st</sup> quadrant.
- If the sin  $\theta = \frac{3}{4}$ , what is the csc  $\theta$ ? \_\_\_\_\_
- If the cos  $\theta = \frac{3}{10}$ , what is the sec  $\theta$ ? \_\_\_\_\_
- If the tan  $\theta = \frac{4}{5}$ , what is the cot  $\theta$ ? \_\_\_\_\_