

Name: \_\_\_\_\_

## Inverse Trigonometric Functions

**Exercise 1:** Evaluate the expression without using the calculator.

1)  $\cos^{-1} 1$

2)  $\cos^{-1} 0$

3)  $\cos^{-1}\left(-\frac{1}{2}\right)$

4)  $\sin^{-1}\frac{\sqrt{3}}{2}$

5)  $\sin^{-1}(-1)$

6)  $\tan^{-1}\sqrt{3}$

7)  $\tan^{-1} 1$

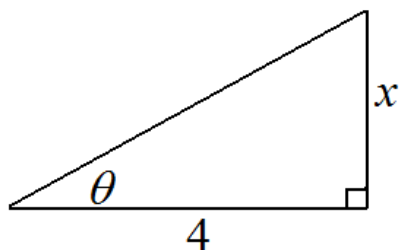
8)  $\tan^{-1}\left(\frac{\sqrt{3}}{3}\right)$

9)  $\cos^{-1}\frac{1}{2}$

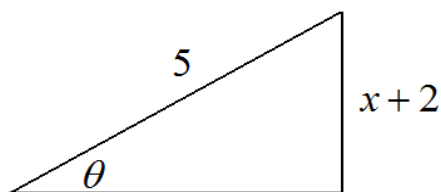
10)  $\cos^{-1}(-1)$

**Exercise 2:** Use an inverse trigonometric function to write  $\theta$  as a function of  $x$ .

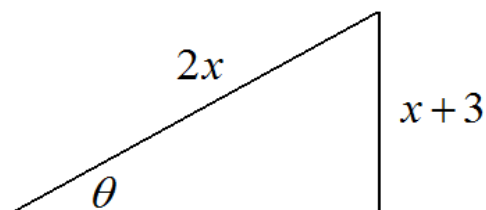
1)



2)



3)



4)

