

**Inverse Trig Functions &  
Composite Trig Functions Worksheet**

Name \_\_\_\_\_

**Directions:** Write the exact trigonometric value of the following problems.

1.  $\cos^{-1} \frac{\sqrt{3}}{2}$

2.  $\sin^{-1} \frac{\sqrt{2}}{2}$

3.  $\arcsin(-1)$

4.  $\cos^{-1}(-1)$

5.  $\arctan(1)$

6.  $\tan^{-1}(-1)$

7.  $\arcsin\left(-\frac{\sqrt{2}}{2}\right)$

8.  $\tan^{-1} \sqrt{3}$

9.  $\arccos \frac{1}{2}$

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

11.  $\arccos\left(-\frac{\sqrt{2}}{2}\right)$

12.  $\cos^{-1} 0$

13.  $\tan^{-1}(0)$

14.  $\cot^{-1} 0$

15.  $\cos^{-1} 2$

16.  $\cos\left(\sin^{-1}\left(\frac{\sqrt{3}}{2}\right)\right)$

17.  $\sin\left(\cos^{-1}\left(-\frac{1}{2}\right)\right)$

18.  $\tan(\sin^{-1} 0)$