

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