

**PreCalculus**  
**WS: 4.7 Extra Practice**

Name \_\_\_\_\_  
Date \_\_\_\_\_ Block \_\_\_\_\_

*Find the exact value without a calculator.*

1.  $\arctan \sqrt{3}$

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

3.  $\tan^{-1} 0$

4.  $\arccos\left(\frac{1}{2}\right)$

5.  $\tan^{-1}(-\sqrt{3})$

6.  $\arcsin 1$

7.  $\sin^{-1}\left(\sin \frac{3\pi}{4}\right)$

8.  $\cos^{-1}\left(\cos \frac{11\pi}{6}\right)$

9.  $\arctan\left(\tan \frac{5\pi}{4}\right)$

10.  $\cos^{-1}\left(\cos\left(\frac{7\pi}{4}\right)\right)$

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

12.  $\arcsin\left(\cos\left(\frac{\pi}{3}\right)\right)$

13.  $\arccos(\cos \pi)$

14.  $\tan^{-1}(\cos \pi)$

15.  $\sin[\arcsin(0.3)]$

16.  $\tan(\arctan 25)$

**Find the exact value of the expression. (Hint: Sketch a right triangle.)**

17.  $\sec\left[\arcsin\left(\frac{4}{5}\right)\right]$

18.  $\cos(\tan^{-1} 2)$

**Write an algebraic expression that is equivalent to the expression. (Hint: Sketch a right triangle.)**

19.  $\cos(\arcsin 2x)$

20.  $\sec(\arctan 3x)$