

MATH 1080

8.3 WS

Name _____

Date _____

Evaluate each of the following with exact values or in radian measure.

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

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

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

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

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

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

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

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

9. $\sin\left(\cos^{-1}\left(\frac{3}{5}\right)\right)$

10. $\tan\left(\sin^{-1}\left(-\frac{2}{3}\right)\right)$

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

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