

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

KEY

Quiz Score: \_\_\_\_\_ /20

Quiz 6

NO CALCULATORS.

Give the exact value of each of the following.

1.  $\sin^{-1}\left(\frac{1}{2}\right) = \underline{\frac{\pi}{6}}$

2.  $\cos^{-1}\left(\frac{1}{2}\right) = \underline{\frac{\pi}{3}}$

3.  $\tan^{-1}(1) = \underline{\frac{\pi}{4}}$

4.  $\sin^{-1}(-1) = \underline{-\frac{\pi}{2}}$

5.  $\cos^{-1}\left(-\frac{1}{\sqrt{2}}\right) = \underline{\frac{3\pi}{4}}$

6.  $\tan^{-1}(-1) = \underline{-\frac{\pi}{4}}$

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

8.  $\sin^{-1}\left(\sin\left(\frac{\pi}{3}\right)\right) = \underline{\frac{\pi}{3}}$

9.  $\sin\left(\sin^{-1}\left(\frac{2}{5}\right)\right) = \underline{\frac{2}{5}}$

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

