

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

**Quiz 8**

*NO CALCULATORS.*

1. (10 pts) Give the exact value of each of the following or state "undefined."

(a)  $\sin^{-1}\left(-\frac{1}{\sqrt{2}}\right) =$  \_\_\_\_\_

(b)  $\cos^{-1}(0) =$  \_\_\_\_\_

(c)  $\sin^{-1}\left(\sin\left(-\frac{13\pi}{14}\right)\right) =$  \_\_\_\_\_

(d)  $\cos^{-1}\left(\cos\left(-\frac{13\pi}{14}\right)\right) =$  \_\_\_\_\_

(e)  $\tan^{-1}\left(\tan\left(-\frac{13\pi}{14}\right)\right) =$  \_\_\_\_\_

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2. (10 pts) Find all real solutions.  $\sqrt{2}\sin x \cos x + \cos x = 0$