Quiz 2

Name:

Instructor: Matt Alexander Quiz Score: /10

Spring 2015

1. Given that t is the real number that corresponds to the point (x,y) on the unit circle, fill in the following: (6pts)

$$\sin(t) = \mathcal{G}$$

$$\cos(t) = \chi$$

$$\tan(t) = \mathcal{G}$$

$$\cot(t) = \chi$$

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2. Find the point (x,y) on the unit circle that corresponds to $t=\frac{5\pi}{4}$. (1pt)

2. Find the point
$$(x, y)$$
 on the unit circle that corresponds to $\begin{pmatrix} -\sqrt{2} & -\sqrt{2} \\ 2 & \sqrt{2} \end{pmatrix}$ 3. Evaluate the sine, cosine, and tangent for $t = -\frac{4\pi}{3}$. (3pts) $\sin\left(-\frac{4\pi}{3}\right) = -5\cos\left(\frac{4\pi}{3}\right) = -1$ $\tan\left(-\frac{4\pi}{3}\right) = \frac{4\pi}{3} = -1$ $\tan\left(-\frac{4\pi}{3}\right) = \frac{3\cos\left(\frac{4\pi}{3}\right)}{\cos\left(\frac{4\pi}{3}\right)} = \frac{3\cos\left(\frac{4\pi}{3}\right)}{2} = -\sqrt{3}$