TRUE OR FALSE:

1) $\frac{\pi}{9} = 20^\circ$ 1) _____

2) The arclength, given a 60° slice with radius 2 feet is 120 feet. _____

3) The angle of measure 6 is in the 1st quadrant. _____

4) $\sin 37^\circ \sec 37^\circ = 1$ 4) _____

5) $\cos 20^\circ - \sin 70^\circ = 0$ _____

6) $\cos 25^\circ = \sin 75^\circ$ _____

7) $\sin \frac{\pi}{2} - \cos \pi = 2$ 7) _____

8) $\sin 150^\circ = \cos(-60^\circ)$ _____

9) $\tan 9\pi = \cos \frac{5\pi}{2}$ _____

10) $\cos\left(\frac{3\pi}{4}\right) = \cos\left(\frac{15\pi}{4}\right)$ 10) _____

11) $\sin\left(-\frac{2\pi}{3}\right) = \cos\left(\frac{\pi}{6}\right)$ _____

12) $\tan\left(-\frac{11\pi}{6}\right) = \tan\left(-\frac{17\pi}{6}\right)$ _____

13) $\cos\left(\frac{3\pi}{2}\right) = \sin 3\pi$ 13) _____

14) $\sin\left(\frac{5\pi}{6}\right) = \cos\left(\frac{2\pi}{3}\right)$ _____

15.) $\tan \frac{5\pi}{3} = -\tan\left(\frac{\pi}{3}\right)$

16.) $\sin(8\pi) = \tan(8\pi)$ 16.)

17.) $\sin\left(\frac{7\pi}{4}\right) = \cos\left(-\frac{\pi}{4}\right)$

18.) $\sec 0 = \csc \pi$

19.) $\cot 480^\circ = \tan 930^\circ$ 19.)

20.) $\cos 240^\circ = \sin 690^\circ$ 20.)

EXTRA: (5 each)

Find 2 values θ, $0 \leq \theta < 2\pi$ where

1.) $\sin\theta = -\frac{1}{2}$

2.) $\tan\theta = -1$