## 6-2 Assignment

Date $\qquad$
$\qquad$
Solve each equation for $0 \leq \theta<2 \pi$. Round your answers to the nearest hundredth.

1) $\tan \theta=-8.46$
2) $-\frac{\sqrt{2}}{2}=\sin \theta$
3) $\tan \theta=1$
4) $\cos \theta=0$
5) $-0.24=\sin \theta$
6) $0.89=\cos \theta$
7) $-4+\cos \theta=-10.67$
8) $-2 \sin \theta=-1.3$
9) $\frac{1}{4} \cdot \cos \theta=-0.175$
10) $-27.66=3 \tan \theta$
11) $-1.76=-2+3 \cos \theta$
12) $5-4 \sin \theta=1$
13) $5.084=5-\frac{1}{5} \cdot \cos \theta$
14) $-1.64=1+3 \sin \theta$
15) The water level of a harbor can be modeled by the equation $f(t)=-30 \cos \left(\frac{6 \pi}{37} t\right)$, where $t$ represents the hours after low tide and $f$ is the water depth in feet. Determine how many hours after low tide the water level is at 15 feet during the day
16) The intensity of a sound wave for a certain pitch fork can be modeled by the function $f(t)=0.001 \sin (1320 \pi t)$, where t is measured in seconds. When does the intensity first reach -0.0006 ?
