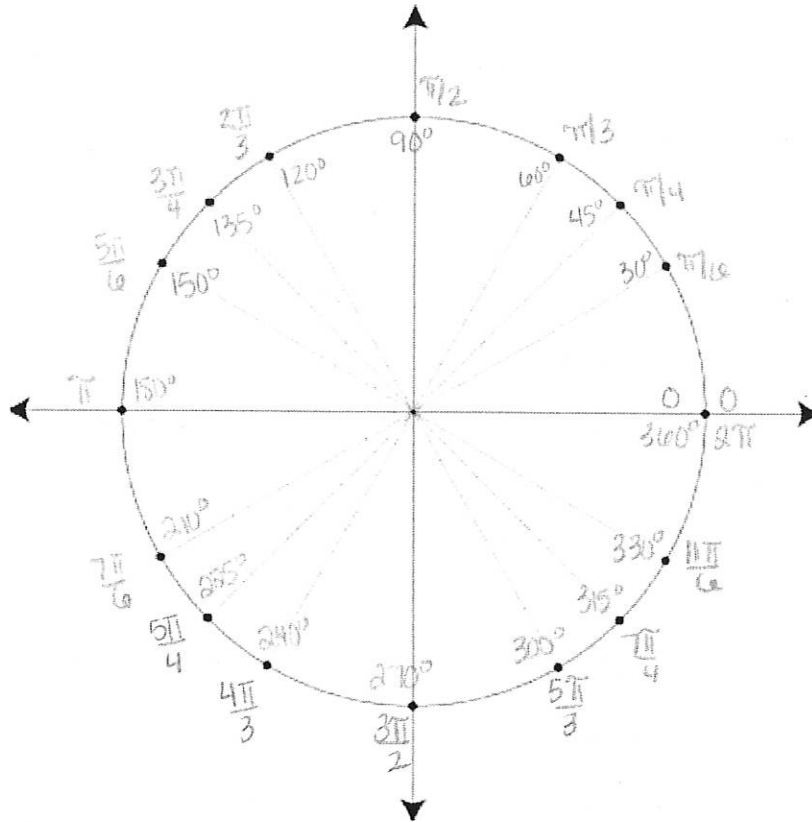


Name: Key

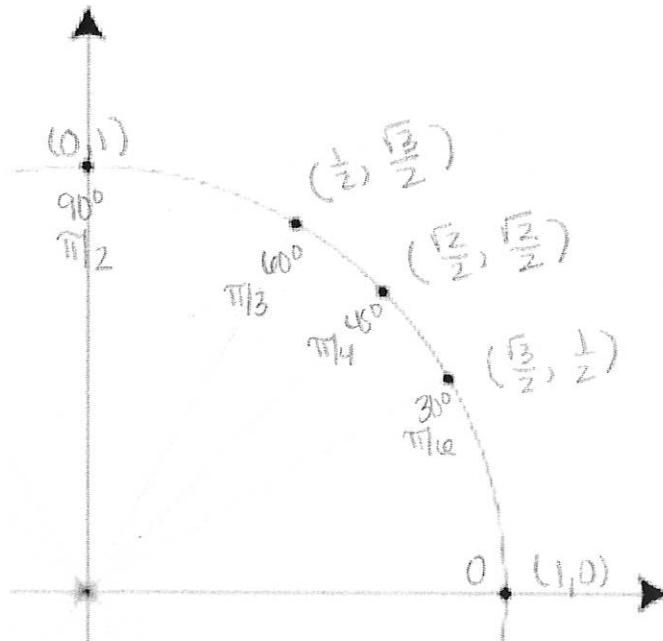
**Problem Set 3.7**

Follow all directions and show all of your work in order to receive full credit.

1. Fill out the degrees and radians of the unit circle for practice.

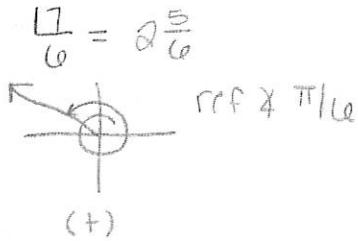


2. Give the terminal points for the three angles (30°, 60°, 45°) in the first quadrant

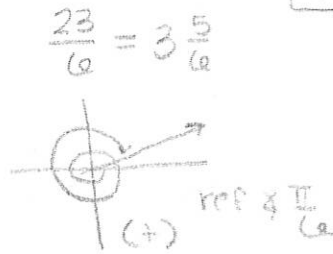


3 - 17] Evaluate the trigonometric expressions.

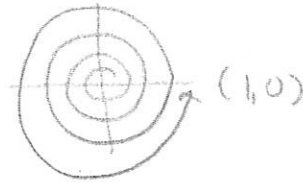
3)  $\csc\left(\frac{17\pi}{6}\right) = \boxed{2}$



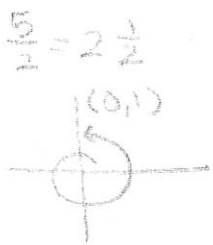
4)  $\cos\left(-\frac{23\pi}{6}\right) = \boxed{\frac{\sqrt{3}}{2}}$



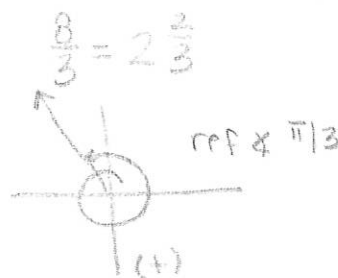
5)  $\tan(8\pi) = \frac{0}{1} = \boxed{0}$



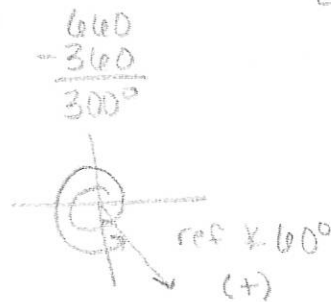
6)  $\sin\left(\frac{5\pi}{2}\right) = \boxed{1}$



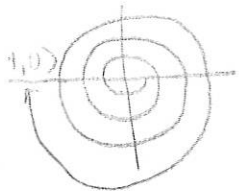
7)  $\sin\left(\frac{8\pi}{3}\right) = \boxed{\frac{\sqrt{3}}{2}}$



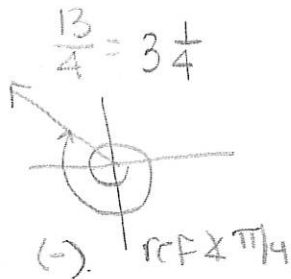
8)  $\cos(660^\circ) = \boxed{\frac{1}{2}}$



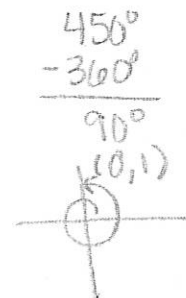
9)  $\cos(-7\pi) = \boxed{-1}$



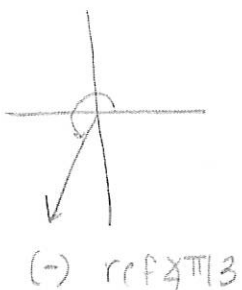
10)  $\sin\left(-\frac{13\pi}{4}\right) = \boxed{-\frac{\sqrt{2}}{2}}$



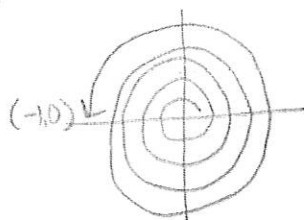
11)  $\sec(450^\circ) = \frac{1}{0} \text{ undefined}$



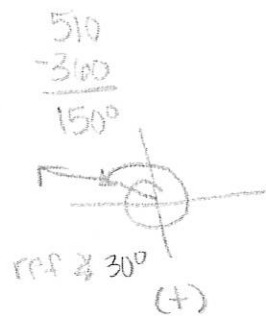
12)  $\cos\left(\frac{4\pi}{3}\right) = \boxed{-\frac{1}{2}}$



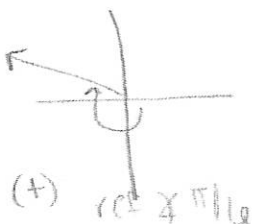
13)  $\sin(9\pi) = \boxed{0}$



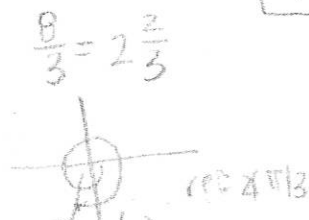
14)  $\csc(510^\circ) = \boxed{2}$



15)  $\csc\left(-\frac{7\pi}{6}\right) = \boxed{2}$



16)  $\sin\left(-\frac{8\pi}{3}\right) = \boxed{-\frac{\sqrt{3}}{2}}$



17)  $\sec(390^\circ) = \boxed{\frac{2\sqrt{3}}{3}}$

