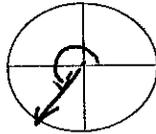


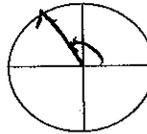
**Warm-up: Radians**

1) Sketch the angle in standard position and name the quadrant:

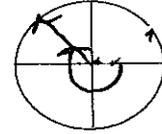
a)  $\frac{5\pi}{4}$  Q3



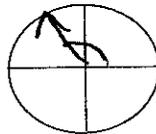
b)  $\frac{2\pi}{3}$  Q2



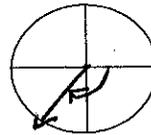
c)  $-\frac{7\pi}{6}$



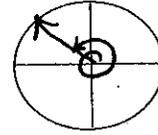
d)  $\frac{3\pi}{5}$  Q2



e)  $-\frac{7\pi}{12}$  Q3



f)  $\frac{21\pi}{8}$  Q2

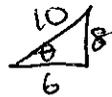


2) Unit Circle Mental Math: Convert without the calculator.

$\frac{5\pi}{6}$   $150^\circ$      $\frac{3\pi}{4}$   $225^\circ$      $\frac{5\pi}{4}$   $315^\circ$      $\frac{5\pi}{3}$   $300^\circ$

$210^\circ$   $\frac{7\pi}{6}$      $240^\circ$   $\frac{4\pi}{3}$      $120^\circ$   $\frac{2\pi}{3}$      $315^\circ$   $\frac{7\pi}{4}$

3) If  $\sec(\theta) = \frac{10}{6}$ , find the value of the other five trig ratios:



$\sec = \frac{1}{\cos \theta} = \frac{11}{A}$   
 $6^2 + x^2 = 10^2$   
 $x^2 = 64$   
 $x = 8$   
 $\sin \theta = \frac{8}{10}$      $\cos \theta = \frac{6}{10}$      $\tan \theta = \frac{8}{6}$   
 $\csc \theta = \frac{10}{8}$      $\sec \theta = \frac{10}{6}$      $\cot \theta = \frac{6}{8}$