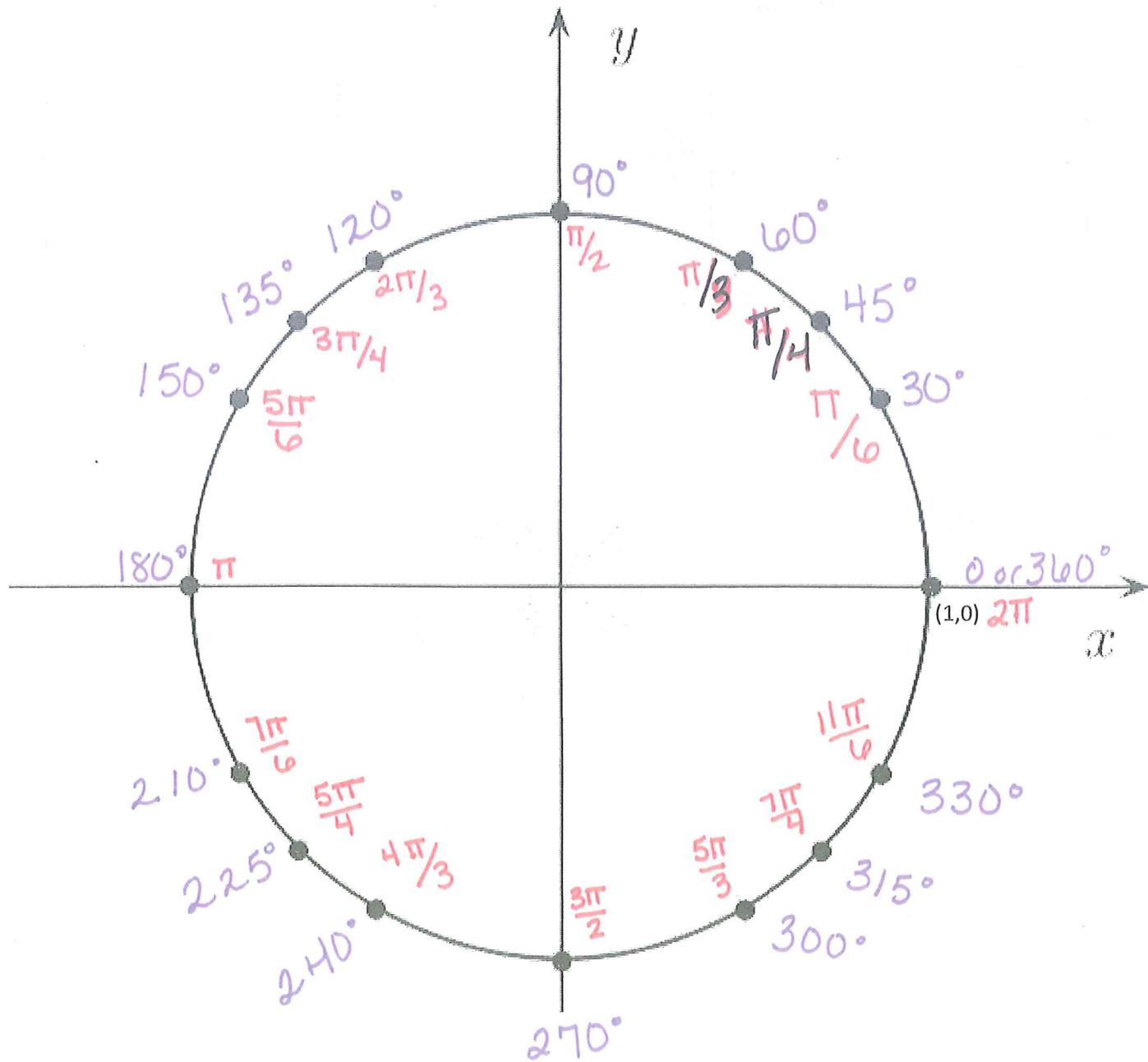


Name: Key Date: \_\_\_\_\_

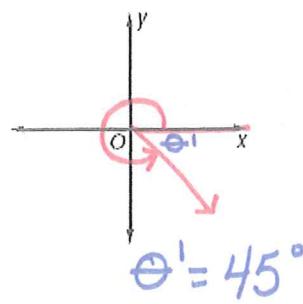
## Alg 2 Supp 13-2/13-3 Angles, Reference Angles & Radians Hwk:

1. On the circle below, draw and label all of the following degrees:  
0, 30, 45, 60, 90, 120, 135, 150, 180, 210, 225, 240, 270, 300, 315, 330, and 360.  
Then find and label all radians of each degree.

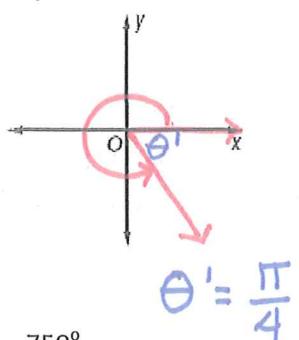


2. Without looking on the front, sketch each angle and find its reference angle.

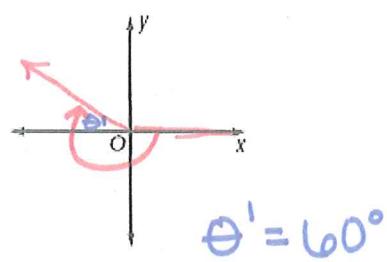
a).  $315^\circ$



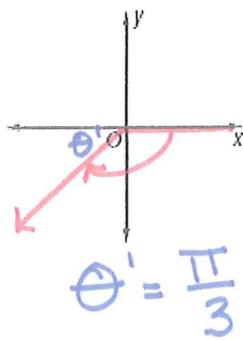
b).  $\frac{7\pi}{4}$



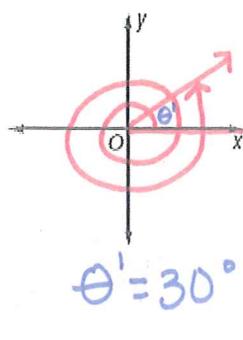
c).  $-240^\circ$



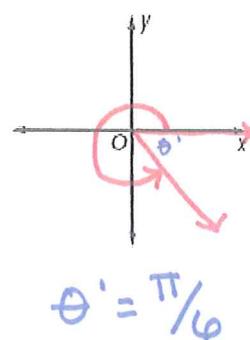
d).  $-\frac{2\pi}{3}$



e).  $750^\circ$



f).  $\frac{5\pi}{6}$



Find one angle with positive measure and one angle with negative measure coterminal with each angle.

19.  $45^\circ$   $405^\circ, -315^\circ$

20.  $60^\circ$   $420^\circ, -300^\circ$

21.  $370^\circ$   $10^\circ, -350^\circ$

22.  $-90^\circ$   $270^\circ, -450^\circ$

23.  $\frac{2\pi}{3}$   $\frac{8\pi}{3}, -\frac{4\pi}{3}$

24.  $\frac{5\pi}{2}$   $\frac{\pi}{2}, -\frac{3\pi}{2}$

25.  $\frac{\pi}{6}$   $\frac{13\pi}{6}, -\frac{11\pi}{6}$

26.  $-\frac{3\pi}{4}$   $\frac{5\pi}{4}, -\frac{11\pi}{4}$