

## Assignment #8-3

## Secondary 3 Honors

For graphing problems, you need to graph ONE complete cycle.

PreCalculus Book: Pg. 304 – 308 27, 29, 33, 34, 39, 40, 43-46, 61

### Additional Problems:

1. Evaluate without using a calculator:

a.  $\sin\left(-\frac{3\pi}{4}\right)$       b.  $\csc(\pi)$       c.  $\tan\left(\frac{5\pi}{3}\right)$

2. Find two values of  $\theta$  where  $0 \leq \theta \leq 2\pi$  if  $\cos \theta = -0.537$ .

3. Determine the sum **without** using a calculator. Do NOT answer in decimal form.

$$\tan\frac{7\pi}{4} + \cos\frac{5\pi}{3}$$

4. What is the reference angle for each of the following:      a.  $216^\circ$       b.  $\frac{13\pi}{15}$

5. Find the angle between  $270^\circ$  and  $360^\circ$  where  $\tan \theta = \frac{-\sqrt{3}}{3}$ .

6. Find the angle between  $90^\circ$  and  $180^\circ$  where  $\sin \theta = \frac{\sqrt{2}}{2}$ .

7. Find the angle between  $180^\circ$  and  $270^\circ$  where  $\cos \theta = \frac{-1}{2}$ .

8. Find the value of  $\sin\theta$ ,  $\cos\theta$ , and  $\tan\theta$  if the terminal side of  $\theta$  passes through the point  $(8, -5)$ .

9. If  $\cos \theta = \frac{-8}{15}$ , and lies in quadrant II, then  $\sin \theta =$