

## Assignment #9-2 B

## Secondary 3 Honors

Precalculus Book: Pg. 365 2, 6, 9, 10, 22, 23, 29, 30, 31, 39, 43, 45, 48

### Additional Problems:

State the quadrant in which  $\theta$  lies:

1.  $\csc \theta > 0$  and  $\tan \theta < 0$

2.  $\cot \theta > 0$  and  $\cos \theta < 0$

3.  $\sec \theta > 0$  and  $\sin \theta < 0$

4.  $\cot \theta > 0$  and  $\sec \theta < 0$

5. Solve for x:  $9^{4x+6} = 27$ .

6. What is the period, amplitude, vertical shift, and horizontal shift of  $f(x) = 3 + \cos\left(2x - \frac{\pi}{2}\right)$ ?