Assignment #7-4

Secondary 3 Honors

PreCalculus Book:	Pg. 274	5-16, 29, 30, 33, 34, 37, 38
	Pg. 294	22, 23, 24, 29-36, 49-52, 57-62

Additional Problems:

1. Let θ be an angle in standard position. In which quadrant(s) can θ lie under the given conditions?

- a) sin θ is positive and $\tan\theta$ is positive.
- b) $\sin\theta~$ is positive and $\cos\theta~$ is negative.
- c) $\tan\theta$ is negative and $\cos\theta$ is positive.
- d) $\cos \theta$ and $\tan \theta$ are positive.
- e) $\tan \theta$ is negative and $\cos \theta$ is positive
- f) $\cot \theta$ is negative and $\sec \theta$ is negative.
- g) $\sec\theta$ is positive and $\csc\theta~$ is negative.

Solve the following equations:

2.
$$2^{4x+2} = 8^{x+2}$$
 3. $7^{9x} = 18$ 4. $\log_5(3x+2) = 3$

5.
$$\log_6(x+9) + \log_6 x = 2$$
 6. $\frac{4}{x-2} + \frac{6x^2}{x^2-4} = \frac{3x}{x+2}$