Solve the equations below, finding exact solutions, when possible, on the interval $0 < \theta \le 2\pi$. Round				
	answers to the nearest thousandth of a radian, if necessary.			
3. $1-3\cos\theta = \sin^2\theta$	4. $3\sin 2\theta = -\sin \theta$			

Solve the equations below, finding exact solutions on the interval $0 \le \theta \le 2\pi$.

2. $\tan \theta = 2\sin \theta$

Day #78 Homework

1. $4\sin^2\theta = 3$

Solve the equations below, finding solutions on the interval $0 \le \theta \le 2\pi$.

5. $4\sin\theta\cos\theta = \sqrt{3}$	6. $2\cos 2\theta \cos \theta + 2\sin 2\theta \sin \theta = -1$

Remember, you can check your solutions to #1 - 6 by graphing each side of the equation and finding the intersection of the two graphs.

7. If $\sin(\pi + \theta) = -\frac{3}{5}$, what is the value of $\csc^2 \theta$?

8. If $\cos\left(\frac{\pi}{4} + \theta\right) = -\frac{6}{7}$, what is the value of $\cos\theta - \sin\theta$?

