Name_____ Date_____ Period_____

Day #69 Homework

Solve each of the following trigonometric equations finding two values for θ if $0° < \theta \leq 360°$. Solve these equations WITHOUT the aid of a calculator. Show your work including your graphical analysis.

1. $\cos\theta = -\frac{\sqrt{3}}{2}$	2. $\csc\theta = \frac{2\sqrt{3}}{3}$

Solve each of the following trigonometric equations finding two values for θ if $0 < \theta \leq 2\pi$. Solve these equations WITHOUT the aid of a calculator. Show your work including your graphical analysis.

3. $\cot\theta = -\sqrt{3}$	4. $\sec\theta = 2$

Solve each of the following trigonometric equations finding two values for θ if $0° < \theta \leq 360°$. Give your answers to the nearest thousandth of a degree. Show your work including your graphical analysis.

5. $\cos\theta = -0.2419$	6. $\sin\theta = -0.2589$

Solve each of the following trigonometric equations finding two values for θ if $0 < \theta \leq 2\pi$. Give your answers to the nearest thousandth of a radian. Show your work including your graphical analysis.

7. $\cot\theta = -1.280$	8. $\sin\theta = -0.6691$