Algebra III
Chapter 8
REVIEW 8.1 – 8.2

Name _____

Date _____

Solve each of the following.

1. Solve for $0^o \leq \theta \leq 360^o$. Give answers to the nearest tenth of a degree.

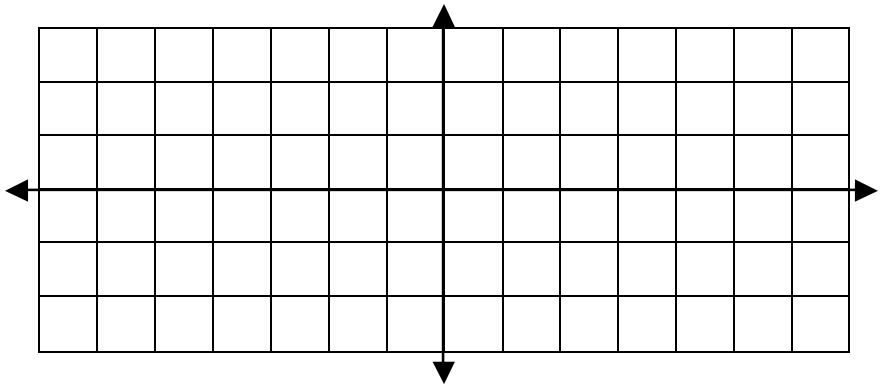
   $\sin\theta = -0.43$

2. Solve for $0 \leq \theta \leq 2\pi$. Give answers to the nearest hundredth of a radian.

   $8 = 9\csc\theta - 4$

3. Graph $y = 3\cos x$

   for $0^o \leq x \leq 360^o$



4. Find the slope of the line described. Inclination = 140^o

5. Write the equation of the line that passes through (3, 5) and had an inclination of 85^o.

6. Find the inclination of the line with the equation of $3x - 5y = 9$.

7. Find the amplitude and the period of $y = 3 \sin 4x$.

8. A sine curve varies between 6 and –6 with a period of 270^{o}. Find its equation.

9. A cosine curve varies between 2 and –2 with a period of 4π. Find its equation.

10. Find the inclination of $y = -3/2\ x + 10$