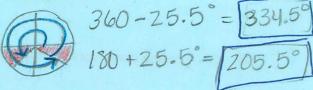
Algebra	II
Chapter	8
REVIE	W

Solve each of the following.

1. Solve for $0^{\circ} \le \theta \le 360^{\circ}$. Give answers to the nearest tenth of a degree.

$$\sin \theta = -0.43$$

$$\Theta = \sin^{-1}(-.43) = -25.5^{\circ}$$



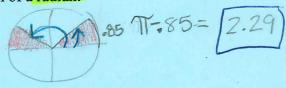
2. Solve for $0 \le \theta \le 2\pi$. Give answers to the nearest hundredth of a radian.

$$8 = 9\csc\theta - 4$$

$$\frac{9}{12} = \csc\theta$$

$$\frac{12}{9} = \csc\theta$$

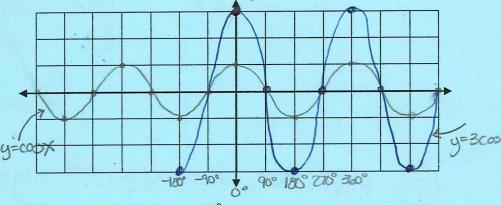
$$\frac{9}{12} = \sin^{-1}(9/12) = 85$$



3. Graph $y = 3\cos x$

for $0^{\circ} \le x \le 360^{\circ}$

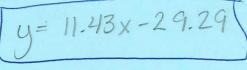
A = 3



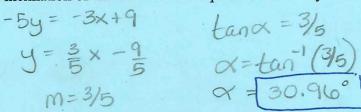
4. Find the slope of the line described.

Inclination = 140°

- m= tand tan 140° [-. 839]
- 5. Write the equation of the line that passes through (3, 5) and had an inclination of 85°.



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



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

$$P = \frac{360^{\circ}}{4} = \frac{90^{\circ}}{4}$$
or $\frac{2\pi}{4} = \frac{7}{2}$

8. A sine curve varies between 6 and -6 with a period of 270°. Find its equation.

$$P = \frac{360^{\circ}}{8} = 270^{\circ}$$

$$\frac{360}{270} = \frac{270}{270} = \frac{12}{9} = \frac{4}{3}$$

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

$$y = \pm 2 \cos(1/2x)$$

(10) Find the inclination of
$$y = -\frac{3}{2}x + 10$$

$$\tan^{-1}(m) = \infty$$

$$\tan^{-1}(-3/2) = -56.31$$

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