## 7-2 Solving Trigonometric Equations

## Objectives:

7-2a: I can solve trig equations algebraically.

Feb 9-10:44 AM

## Solve for theta without a calculator. (Hint: use the unit circle) 0 < 6 < 211

$$\sin \theta = -\frac{1}{2}$$

$$\Rightarrow = \frac{7\pi}{6}$$

$$\sec \theta = -2$$

$$\cot \theta = -\sqrt{3}$$

$$\tan \theta = -\frac{\sqrt{3}}{3}$$

$$\cos \theta = -\frac{1}{2}$$

$$\cos \theta = -\frac{1$$

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$$-3 = -3 - \cos \theta$$

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$$-12 - 6 \sin \theta = 6$$

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$$\cos \theta = 2 \qquad \cos \theta = \frac{2\sqrt{3}}{3}$$

$$4 - \frac{1}{5}\cos\theta = \frac{20 - \sqrt{2}}{5}$$

$$= \frac{20 - \sqrt{2} - 20}{5}$$

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$$= \frac{20 - \sqrt{2} - 20}{5}$$

$$= \cos\theta = \sqrt{2}$$

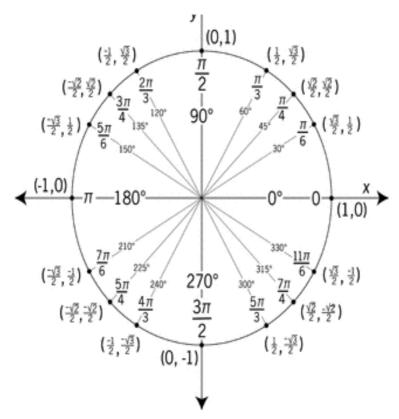
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