

For each problem, determine the mistake(s), then correct the answer.

5.1-5.3 Quiz

1. Simplify the trigonometric expression

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

$$\cos\theta (\cos\theta - 1)$$

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

2. Determine the general solution to

$$\sec^2 x - \sec x - 2 = 0$$

$$(\sec x - 2)(\sec x + 1)$$

$$\sec x = 2 \quad \sec x = -1$$

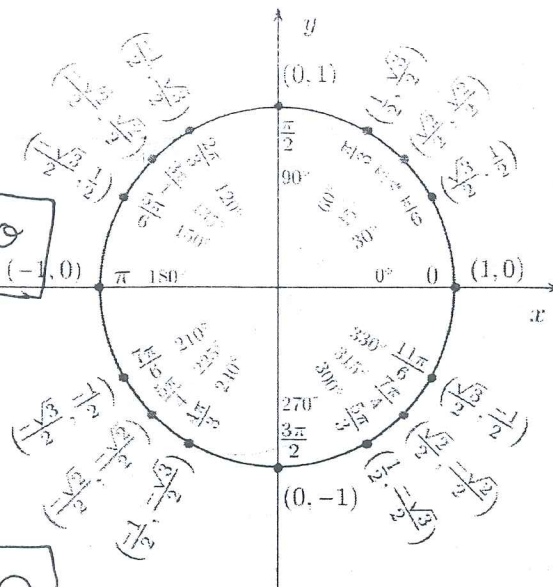
$$\cos x = \frac{1}{2} \quad \cos x = -1$$

$$\frac{\pi}{6} + 2\pi n, \quad \frac{5\pi}{6} + 2\pi n, \quad \frac{3\pi}{2} + 2\pi n$$

3. Determine the solution(s) for $0 \leq x < 2\pi$ of $\cos^2 3x = 0$

$$\cos 3x = 0$$

$$\frac{\pi}{2} + \pi n$$



★ All solutions ARE INCORRECT

Example:

1. The mistake that Ms. Delisic made was _____
 But, this is how you do the problem correctly _____

Due Monday!