

Feb 2-9:51 PM

## 5.3 Solving Trig Equations Day 2

Multiple Angles Problems

## We will use the domain $[0, 2\pi)$

1. 
$$\cos 2x = 0$$

2.  $2\sin^2 2x = \frac{1}{2}$ 

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3.  $\sin^2 2x = \frac{1}{2}$ 

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3. 
$$2\sin \beta x = \sqrt{3}$$

$$\sin 3x = \frac{3}{3}$$

$$3x = \frac{3}{3}, \frac{2}{3}, \frac{3}{3}, \frac{3}{3}, \frac{4}{3}$$

$$x = \frac{1}{3}, \frac{2}{3}, \frac{1}{3}, \frac{3}{3}, \frac{1}{3}, \frac{1$$

Solve over  $[0, 2\pi)$ .

$$5. \underbrace{4\sin x} = \cos x - 2$$

Calculator  $y = \cos x$   $\frac{7}{2}$  intersect  $y = x + x^2$   $\frac{7}{2}$ 

χ= 0.55

x-coordinate

X=3.89, 6.02

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## HOMEWORK



p 376 49, 52 (no calc)

53-59 (calc)

63-71 odd,

77-87 odd (calc)