Sec 7.6 Solving Quadratic Trig Equations

By the end of today's class we will be able to:

-rearrange a trig equation to put in standard quadratic form

-solve a standard form trig quadratic equation

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Recall:

Solve $0 = 2x^2 - x - 3$

Case 1 - Factor Case 2 - QF

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What if we replace the "x" with a "sinx"

$$0 = 2\sin^2 x - \sin x - 3$$

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Sometimes the equation has to be rearranged first and then solved.

Solve:

$$\sqrt{3} = 2\sqrt{3}\sin x + 4\sin^2 x - 2\sin x$$

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And then... sometimes you have to use identities, then rearrange, and then solve!!!!

Solve:

$$2\sec^2 x - 3 + \tan x = 0$$

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