Mathematics 11UC

3.4 – Solving Quadratic Equations
Part II

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How to solve...

50/2+2015, 500+5

- Solving means to find the zero/x-intercepts
- To solve, move everything to one side
- Use technology to solve, or factor
- To factor, rewrite the equation in standard form.

Break even, find the zeros.

$$x^{2} + 3x + 10 = 3x^{2} - 4x - 5$$

$$0 = 2x^{2} - 7x - 15$$

$$0 = 2x^{2} - 10x + 3x - 15$$

$$0 = 2x(x - 5) + 3(x - 5)$$

$$0 = (x - 5)(2x + 3)$$

$$= 0$$

$$(x+3)(x-1) = 2(x-5)(x+3)$$

$$x^{2}-x+3x-3 = 2(x^{2}+3x-5x-15)$$

$$x^{2}+2x-3 = 2x^{2}-4x-30$$

$$0=0x^{2}-6x-27$$

$$0=(x-9)(x+3)$$

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