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Ch 10.4 Solving Equations in Factored Form

<u>Factored Form</u>: product of 2 or more linear factors (1st power)

<u>Zero-product property</u>: product of two factors is zero when at least one of the factors is zero.

The number of x's tell how many solutions you can have.

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What number(s) can you plug into the equation and make the expressions = 0?

Ex 1a)
$$(x - 2)(x + 3) = 0$$

Ex 1b)
$$(x - 4) (2x + 1) = 0$$

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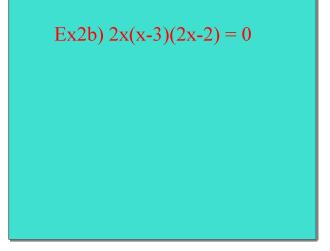
Ex 1c)
$$(2x+1)(3x-2)(x-1) = 0$$

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Try #1)
$$(5x - 3)(x - 2) = 0$$

Ex 2a)
$$5(3x - 7)(x+3) = 0$$

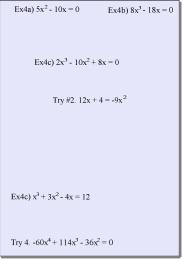
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Ex3b) $x^2 - 3x = 10$

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Solving Quadratic Equations:

- 1. Set the equations = 0
- 2. Factor the polynomial
- 3. set each binomial = 0
- 4. solve each equation

Ex3a)
$$x^2 + 11x + 18 = 0$$

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Ex3c)
$$2x^2 - 88 = 5x$$

Try 2)
$$3x^2 - 2x = 21$$

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