I can translate quadratic equations from standard form INTO factored and vertex forms.

working backwards!

4.3C - Factoring Polynomials with $a \neq 1$

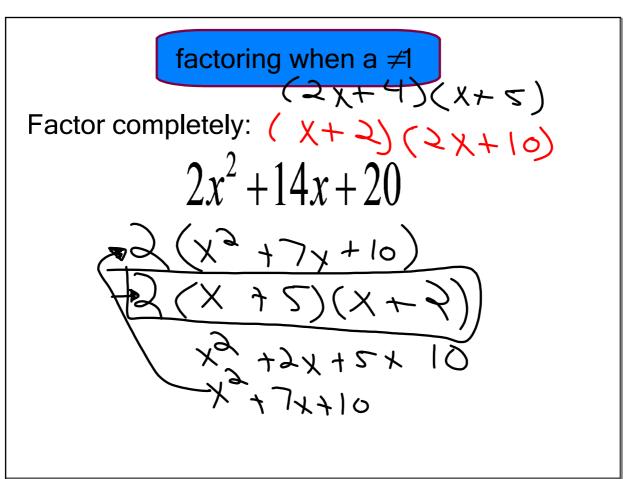
Sep 10-3:04 PM

Strategy:

- 1. Factor out any GCF first
- 2. Find factors of first term (start with the closest numbers together)
- 3. Choose your +/- signs
- 4. Guess and check!

$$x^{2} - 16$$
 $(x + 4)(x - 4)$
 $(1x^{2} + 12x + 9)$

Jan 19-8:24 AM



Factor completely: $5x^2 - 60x - 140$ $5(x^2 - 12x - 28)$ $5(x^2 - 12x - 28)$ $5(x^2 + 2x - 14x - 28)$

Sep 19-3:39 PM

factoring when a ≠1

$$\frac{2x^{2} + 7x + 3}{2x + 1)(1x + 3}$$

$$\frac{2x^{2} + 6x + 1x}{2x^{2} + 6x + 1x}$$

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Factor completely:

$$3x^2 + 17x + 10$$

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

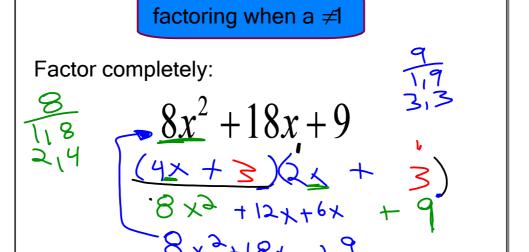
$$x + 5$$

$$x = 5$$

Nov 5-8:33 AM

factoring when a ≠1

$$4x^{2} - 36$$
 $4(x^{2} - 9)$
 $4(x + 3)(x - 3)$



$$4. x = \frac{3}{4}.4(4x + 3)Q_{x} + 3$$

$$4x = -3$$

$$4x + 3$$

$$4x + 3 =$$

Sep 19-3:39 PM

$$3t^2 + 2t - 8$$

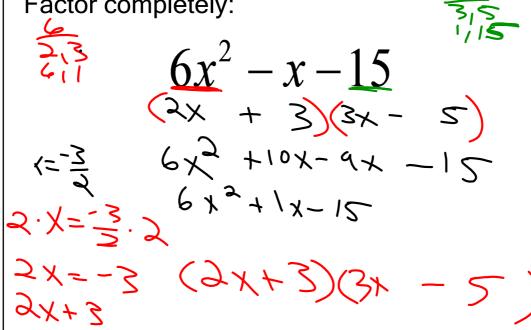
$$4t^2 - 25$$

Jan 19-8:25 AM

factoring when a ≠1

$$2x^2 - 11x - 6$$

Factor completely:



Sep 19-3:39 PM

factoring when a ≠1

$$4x^2 + 48x + 36$$

4.3CD Homework

Pg 39 (5,7,11,13,19) Pg 41 (1, 5-13 odd)



date assigned: + cesday date due/HH:

Jan 19-8:22 AM