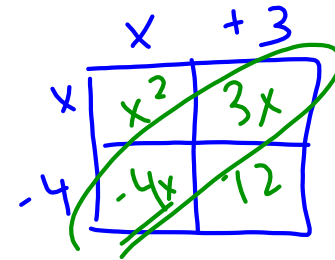


Do Now:

1) $(x+3)(x-4)$

$$x^2 - x - 12$$



2) $n^2 - n - 56$

$$(n-8)(n+7)$$

3) $k^2 - 13k + 40$

$$(k-5)(k-8)$$

Feb 11-3:53 PM

HW Answers

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1. $(x + 2)(x + 5)$
2. $(x + 1)(x + 8)$
3. $(x + 4)(x + 9)$
4. $(x + 7)(x + 2)$
5. $(x + 3)(x + 4)$
6. $(x + 6)(x + 3)$
7. $(x - 6)(x - 3)$
8. $(x - 4)(x - 1)$
9. $(x - 5)(x - 4)$
10. $(x - 2)(x - 10)$

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1. $x - 8$
3. a. $x + 5$
b. 12 in by 19 in
c. $x^2 + x - 12$

Mar 8-12:34 PM

Trinomial Factoring Day 2

Recall:

How do we factor trinomials?

$$x^2 + bx + c$$

1. Set up your binomial multiplication
2. Find two factors (m & n) of c that add up to b
3. Fill your parentheses with (x+m)(x+n)

Feb 11-4:04 PM

What happens if one of the binomials is factorable?

$$x^4 + x^2 - 2$$

$$(x^2 - 1)(x^2 + 2)$$

$$(x+1)(x-1)(x^2+2)$$

$c = -2$	$B = 1$
$-2 \cdot 1$	$-2 + 1 = -1$
$2 \cdot -1$	$2 + -1 = 1$

DOTS
 $a^2 - b^2$
 $(a-b)(a+b)$

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Find and fix the mistake:

$$x^2 + 10x + 24$$

Answer: $(x+3)(x+8)$

Incorrect factors

$$(x+4)(x+6)$$

Feb 11-4:17 PM

Types of Factoring

$x^2 - 64$ $(x-8)(x+8)$	$36n^2 - 18n$ $18n(2n - 1)$
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<p>Trinomial</p> $x^4 - x^2 - 42$ $(x^2 - 7)(x^2 + 6)$	$\frac{2a^3}{a^2} - \frac{a^2b}{a^2} + \frac{10a}{5} - \frac{5b}{5}$ $a^2(2a - b) + 5(2a - b)$ $(a^2 + 5)(2a - b)$
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Mar 4-11:25 AM