

Back to Basics HW_2

Thursday, April 23, 2015

12:13 PM

Can you find the error(s)?

[Yellow highlight] = videos

Back to Basics HW_2	Period (circle one): 5 7	Date:	Name: <i>Key</i>
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Multiply

- $(x-3)(x+4)$
 $x^2 - x - 12$
- $(x-6)(x-3)$
 $x^2 - 9x + 18$
- $(x+3)(x+12)$
 $x^2 + 15x + 36$

Factor

- $x^2 - 11x + 18$
 $(x-9)(x-2)$
- $x^2 - 3x - 18$
 $(x-6)(x+3)$
- $x^2 + 10x + 16$
 $(x+8)(x+2)$

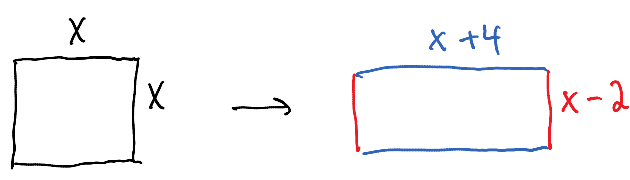
Multiply

- $(3x+4)(x+6)$
 $3x^2 + 22x + 24$
- $(3x-4)(4x-5)$
 $12x^2 - 31x + 20$
- $(3x-1)(2x+7)$
 $6x^2 + 9x - 7$
- $(2x+6)(3x+1)$
 $6x^2 + 20x + 6$
- $(3x-2)(4x+7)$
 $12x^2 + 13x - 14$
- $(4x-2)(2x-9)$
 $8x^2 - 40x + 18$

Factor

- $2x^2 - x - 3$
 $(2x-3)(x+1)$
- $9x^2 + 27x + 8$
 $(3x+1)(3x+8)$
- $2x^2 - 29x + 60$
 $(2x-5)(x-12)$
- $2x^2 + 13x + 15$
 $(2x+3)(x+5)$
- $10x^2 + 33x + 20$
 $(5x+4)(2x+5)$
- $2x^2 + 9x - 35$
 $(2x-5)(x+7)$

19. Area problem: A square with side lengths of x was converted into a rectangle by increasing two of the sides by 4 and decreasing the other two sides by 2. If the area of the new rectangle is 27 square units, what were the dimensions of the original square?



$$A = l \cdot w$$

$$27 = (x+4)(x-2)$$

$$27 = x^2 + 2x - 8$$

$$\begin{array}{r} -27 \\ \hline 0 = x^2 + 2x - 35 \end{array}$$

$$0 = (x+7)(x-5)$$

$x = -7$ or $x = 5$

The dimensions of the original square were 5 units by 5 units

$$0 = (x + 7)(x - 5)$$

