

DO NOW**Simplify the expressions**

1) $2xy(3x^2y - 4x + 2y)$

$$6x^3y^2 - 8x^2y + 4xy^2$$

2) $(2a^2)^3$

$$8a^6$$

Sep 19-8:32 AM

Homework Answers

1) $3x^3 + 2x$

2) $x^3 - 2x^2 + 3$

3) $x + 1$

4) $-4z^5 + 3$

5) $21b^3 - 14b^2 + 35b$

6) $2x + 1$

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Multiplying Binomials

Use the distributive property TWICE

EX: $(x + 4)(x + 3)$

$$(x + 4)(x + 3)$$

$x + 4$

x x^2 $4x$

$+3$ $3x$ 12

$x^2 + 7x + 12$

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Multiplying Binomials

Use the distributive property TWICE

EX: $(x + 5)(x - 2)$

$$(x + 5)(x - 2)$$

$x + 5$

x x^2 $5x$

-2 $-2x$ -10

$x^2 + 3x - 10$

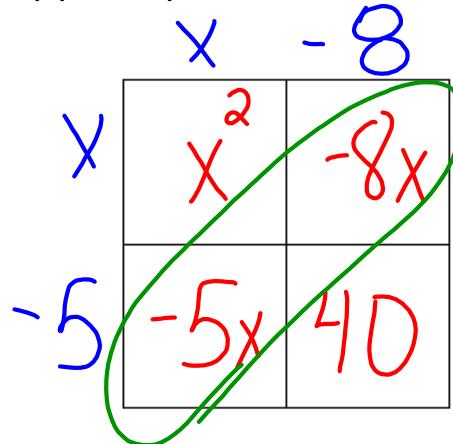
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Multiplying Binomials

Use the distributive property TWICE

$$\text{EX: } (x - 8)(x - 5)$$

$$x^2 - 13x + 40$$



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Multiplying Binomials

1. $(x + 2)(x - 7)$

$$\begin{array}{r} x^2 - 7x + 2x - 14 \\ \rightarrow x^2 - 5x - 14 \end{array}$$

2. $(x - 5)(x - 3)$

$$x^2 - 8x + 15$$

3. $(x + 2)(x + 3)$

$$x^2 + 5x + 6$$

4. $(x - 6)(x - 3)$

$$x^2 - 9x + 18$$

5. $(x + 6)(x - 2)$

$$x^2 + 4x - 12$$

6. $(x - 12)(x - 4)$

$$x^2 - 16x + 48$$

7. $(x + 3)(x - 9)$

$$x^2 - 6x - 27$$

8. $(x + 7)(x - 3)$

$$x^2 + 4x - 21$$

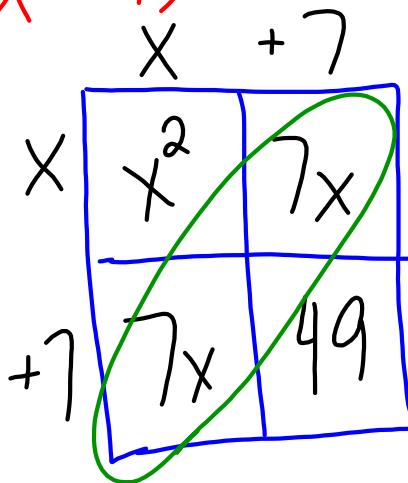
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Binomial Squared

EX: $(x + 7)^2$

$$(x + 7)(x + 7)$$

$$\boxed{x^2 + 14x + 49}$$



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