

Wednesday, February 20, 2019

- Warm-up

- Factor completely:

$$\frac{2x^2}{2} + \frac{28x}{2} + \frac{98}{2}$$

$$2(x^2 + 14x + 49)$$

$$2(x+7)(x+7)$$

$$2(x+7)^2$$

$$\frac{8x^2}{8} - \frac{32}{8}$$

$$8(x^2 - 4)$$

$$8(x^2 + 0x - 4)$$

$$8(x-2)(x+2)$$

$$\begin{array}{l} +1 \cdot -4 \\ -1 \cdot 4 \\ -2 \cdot 2 \end{array}$$

$$\frac{9ab^2}{a} + \frac{8ab}{a} + \frac{16a}{a}$$

$$a(9b^2 + 8b + 16)$$

$3 \cdot 3$ $1 \cdot 16$
 $9 \cdot 1$ $2 \cdot 8$
 $4 \cdot 4$

3b × 4 × 2

- Factoring Special Cases

- intro
- practice
- challenge

- Exit Slip

Objectives:

Content: I will factor special cases of polynomials.

Social: I will work with my partner, encouraging them and helping each of us to understand.

Language: I will carefully and intentionally use the terms “perfect square” and “difference of squares” in describing polynomials.

Special Cases

Perfect Squares

Difference of Squares

$$x^2 - 8x + 16$$

$$(x-4)(x-4)$$

$$(x-4)^2$$

$$x^2 + 12x + 36$$

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

$$(x+6)^2$$

$$4x^2 + 20x + 25$$

$$4x^2 + 20x + 25$$

$$(2x+5)^2$$

√ of 1st term
*

√ of last term
*2

middle term

$$49a^2 - 64b^2$$

$$(7a-8b)(7a+8b)$$

$$x^2 + 0x - 4$$

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

$$x^2 - 81$$

$$(x+9)(x-9)$$

$$49a^2 - 64b^2$$

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Individual Practice

Objectives:

Content: I will factor special cases of polynomials.

Social: I will work with my partner, encouraging them and helping each of us to understand.

Language: I will carefully and intentionally use the terms “perfect square” and “difference of squares” in describing polynomials.

Partner Challenge



Objectives:

Content: I will factor special cases of polynomials.

Social: I will work with my partner, encouraging them and helping each of us to understand.

Language: I will carefully and intentionally use the terms “perfect square” and “difference of squares” in describing polynomials.