Special products and polynomial division

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Name: _____ Class: _____ Date: _____

Worked example 1

Simplify completely, showing the relevant rule.

$$(2x-3)^2$$

Guided attempt 2

Simplify completely, showing the relevant rule.

$$(3x+2)(3x-2)$$

1. The matching terms are a=___ and b=___.
2. a^2-b^2=___−___=___.

Prerequisite 3

Evaluate $(-3)^2$, including the sign.

$$(-3)^2$$

Prerequisite 4

Simplify; retain the original divisor restriction $x \neq 0$.

$$\frac{x^5}{x^2}$$

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Independent practice 5

Simplify completely, showing the relevant rule.

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

Independent practice 6

Simplify completely, showing the relevant rule.

$$(x+4)^2$$

Independent practice 7

Simplify; retain the original divisor restriction $x \neq 0$.

$$\frac{x^3}{x^3}$$

Independent practice 8

Simplify; retain the original divisor restriction $x \neq 0$.

$$\frac{6x^3 - 9x^2}{3x}$$

Exit question 9

Simplify completely, showing the relevant rule.

$$(x-2)^2$$

Exit question 10

Simplify completely, showing the relevant rule.

$$\frac{4x^2 + 8x}{4}$$