Powers and polynomial multiplication

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Name: _____ Class: _____ Date: _____

Worked example 1

Simplify completely, showing the relevant rule.

$$(2x-3)(x+4)$$

Guided attempt 2

Simplify completely, showing the relevant rule.

$$(2x^2y)^3$$

1. 2^3=___; $(x^2)^3 = x^{\square}$; y^3=___.
2. Multiply the three factors: ___.

Prerequisite 3

Simplify completely, showing the relevant rule.

$$x^3x^4$$

Prerequisite 4

Simplify completely, showing the relevant rule.

$$(x^3)^4$$

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Independent practice 5

Simplify completely, showing the relevant rule.

$$(3xy^2)^2$$

Independent practice 6

Simplify completely, showing the relevant rule.

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

Independent practice 7

Simplify completely, showing the relevant rule.

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

Independent practice 8

Simplify completely, showing the relevant rule.

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

Exit question 9

Simplify completely, showing the relevant rule.

$$x^2+x^2$$

Exit question 10

Simplify completely, showing the relevant rule.

$$-2x(x-4)$$