

Name : _____

Simplifying Expressions

MS4

Simplify each expression.

1) $\frac{9p^2 - 3q^2}{7q^2} \times \frac{56p^2}{3p^2 - q^2}$

2) $\frac{5x + 35y}{x^2 - y^2} \div \frac{20(x + 7y)}{x^2 - xy}$

3) $\frac{a^2 - 2a - 24}{16a^2 - 9b^2}$

PREVIEW

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5) $\frac{(u - 9)(u - 5)}{125u^3 - v^3}$

7) $\frac{x^2 + 6x + 8}{x - 2} \div \frac{x^3 + 2x^2}{x^2 - 2x}$

8) $\frac{4d^2 + 3}{c^2 + 7c + 12} \times \frac{c^2 + 6c + 9}{c + 3}$

Simplifying Expressions

Simplify each expression.

1) $\frac{9p^2 - 3q^2}{7q^2} \times \frac{56p^2}{3p^2 - q^2}$

$$\frac{24p^2}{q^2}$$

2) $\frac{5x + 35y}{x^2 - y^2} \div \frac{20(x + 7y)}{x^2 - xy}$

$$\frac{x}{4(x + y)}$$

3) $\frac{a^2 - 2a - 24}{16a^2 - 9b^2}$

PREVIEW

$$\frac{1}{5} \times (m^3 - 27)$$

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$$\frac{1}{4a + 3b}$$

5) $\frac{(u - 9)(u - 5)}{125u^3 - v^3}$

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$$\frac{m^2 - 9}{m + 5}$$

$$\frac{5u}{25u^2 + 5uv + v^2}$$

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7) $\frac{x^2 + 6x + 8}{x - 2} \div \frac{x^3 + 2x^2}{x^2 - 2x}$

$$\frac{x + 4}{x}$$

8) $\frac{4d^2 + 3}{c^2 + 7c + 12} \times \frac{c^2 + 6c + 9}{c + 3}$

$$\frac{4d^2 + 3}{c + 4}$$