

Name : _____

Simplifying Expressions

MS1

Simplify each expression.

1) $\frac{3a - 9b}{a^2 - ab} \div \frac{a^2 - 9b^2}{a^2 - b^2}$

2) $\frac{x^3 + 2x^2}{y^3 - y} \times \frac{y^2 - 1}{x^2 - 4}$

3) $\frac{9p^2 - 16q^2}{p^2 - 16} \times$

PREVIEW

$\div \frac{(n + 7)(n - 11)}{n^2 + 11n + 28}$

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5) $\frac{k^2 - k - 6}{k^2 - 9} \div$

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$\div \frac{s^2 - s - 20}{s - 5}$

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7) $\frac{2c - 5}{(c + 2)(c - 3)} \times \frac{c - 3}{4c - 10}$

8) $\frac{24m + 30}{9m^2 - 24mn + 16n^2} \div \frac{12m + 15}{3m - 4n}$

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Answer key

MS1

Simplifying Expressions

Simplify each expression.

1) $\frac{3a - 9b}{a^2 - ab} \div \frac{a^2 - 9b^2}{a^2 - b^2}$

2) $\frac{x^3 + 2x^2}{y^3 - y} \times \frac{y^2 - 1}{x^2 - 4}$

$\frac{3(a + b)}{a(a + 3b)}$

$\frac{x^2}{y(x - 2)}$

3) $\frac{9p^2 - 16q^2}{p^2 - 16} \times$

PREVIEW

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$\div \frac{(n + 7)(n - 11)}{n^2 + 11n + 28}$

$\frac{3p + 4q}{p + 4}$

5) $\frac{k^2 - k - 6}{k^2 - 9} \div$

$\frac{s^2 - s - 20}{s - 5}$

1

7) $\frac{2c - 5}{(c + 2)(c - 3)} \times \frac{c - 3}{4c - 10}$

8) $\frac{24m + 30}{9m^2 - 24mn + 16n^2} \div \frac{12m + 15}{3m - 4n}$

$\frac{1}{2(c + 2)}$

$\frac{2}{3m - 4n}$