

Simplifying Expressions

MS5

Simplify each expression.

1)
$$\frac{v^2 - 16}{v^2 - v - 20} \times \frac{v^2 - 25}{v^2 + 10v + 25}$$

2)
$$\frac{c^2 + 2c - 35}{9c^2 - 4b^2} \div \frac{(3c - 15)(c + 7)}{9c^2 + 6bc}$$

3)
$$\frac{(z + 4)(z - 7)}{15z - 12}$$

$$\frac{7(p + 6)(p + 5)}{2p + 1}$$

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5)
$$\frac{c^4d^4 - cd}{c^3d^3 + c^2d^2 + c}$$

$$\frac{g^3 - 125}{2g + 10}$$

7)
$$\frac{(x - y)}{(x^2 - xy + y^2)} \div \frac{5x^2y - 5xy^2}{x^3 + y^3}$$

8)
$$\frac{n^2}{7m^2 - 2n^2} \times \frac{35m^3n - 10mn^3}{6n^3}$$

Simplifying Expressions

Simplify each expression.

1) $\frac{v^2 - 16}{v^2 - v - 20} \times \frac{v^2 - 25}{v^2 + 10v + 25}$

$$\frac{v - 4}{v + 5}$$

2) $\frac{c^2 + 2c - 35}{9c^2 - 4b^2} \div \frac{(3c - 15)(c + 7)}{9c^2 + 6bc}$

$$\frac{c}{3c - 2b}$$

3) $\frac{(z + 4)(z - 7)}{15z - 12}$

PREVIEW

$$\frac{7(p + 6)(p + 5)}{2p + 1}$$

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$$\frac{1}{3}$$

5) $\frac{c^4d^4 - cd}{c^3d^3 + c^2d^2 + c}$

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$$\frac{g^3 - 125}{2g + 10}$$

$$1$$

$$15)$$

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7) $\frac{(x - y)}{(x^2 - xy + y^2)} \div \frac{5x^2y - 5xy^2}{x^3 + y^3}$

$$\frac{x + y}{5xy}$$

8) $\frac{n^2}{7m^2 - 2n^2} \times \frac{35m^3n - 10mn^3}{6n^3}$

$$\frac{5m}{6}$$