

Name : _____

Simplifying Expressions

MS2

Simplify each expression.

1) $\frac{(m+5)(m+2)}{m^2-m-6} \times \frac{m^2+m-12}{(m+5)^2}$

2) $\frac{p^2+5p+6}{p-2} \div \frac{p^2+3p}{p^2-2p}$

3) $\frac{a^2-4b^2}{a^2-9c^2} \times \frac{a}{a}$

PREVIEW

$$\frac{6u+24v}{u^2-uv}$$

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5) $\frac{q^2+3q+2}{q^2-4q-12}$

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$$\times \frac{c^3-12c^2+35c}{28c^2-7cd}$$

7) $\frac{16x^2-9y^2}{x^2-2x-24} \div \frac{8x+6y}{(2x-12)(x+4)}$

8) $\frac{s^3t^3+1}{s^2-13s-48} \times \frac{s^2-16s}{s^2t+s}$

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Simplifying Expressions

Simplify each expression.

1) $\frac{(m+5)(m+2)}{m^2-m-6} \times \frac{m^2+m-12}{(m+5)^2}$

$$\frac{m+4}{m+5}$$

2) $\frac{p^2+5p+6}{p-2} \div \frac{p^2+3p}{p^2-2p}$

$$p+2$$

3) $\frac{a^2-4b^2}{a^2-9c^2} \times \frac{a}{a}$

$$\frac{a(a-2b)}{c(a+3c)}$$

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$$\frac{6u+24v}{u^2-uv}$$

5) $\frac{q^2+3q+2}{q^2-4q-12}$

$$q-1$$

$$\times \frac{c^3-12c^2+35c}{28c^2-7cd}$$

$$d^2$$

7) $\frac{16x^2-9y^2}{x^2-2x-24} \div \frac{8x+6y}{(2x-12)(x+4)}$

$$4x-3y$$

8) $\frac{s^3t^3+1}{s^2-13s-48} \times \frac{s^2-16s}{s^2t+s}$

$$\frac{s^2t^2-st+1}{s+3}$$