

Name : _____

Simplifying Expressions

MS3

Simplify each expression.

1) $\frac{y+1}{y^2+6y+5} \times (y^3+125)$

2) $\frac{(p-q)(p+q)}{(p^2-pq+q^2)(p+q)} \div \frac{p^2-q^2}{p^3+q^3}$

3) $\frac{c+12}{10c^5} \div \frac{3c^2}{3}$

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$\frac{3}{3} \times \frac{s^2-12s-85}{(s+4)(s+5)}$

5) $\frac{10m^4n-10m}{5mn}$

$\div \frac{9u^2v-8uv^2}{u^4v}$

7) $\frac{a^5}{a^3b^3+a^2b^2+ab} \div \frac{a^2b-a}{a^4b^4-ab}$

8) $\frac{20x^2-5y^2}{9y} \times \frac{63y^2}{4x^2-y^2}$

Simplifying Expressions

Simplify each expression.

1) $\frac{y+1}{y^2+6y+5} \times (y^3+125)$

$y^2 - 5y + 25$

2) $\frac{(p-q)(p+q)}{(p^2-pq+q^2)(p+q)} \div \frac{p^2-q^2}{p^3+q^3}$

1

3) $\frac{c+12}{10c^5} \div \frac{3c^2}{3}$

c

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$\frac{3}{3} \times \frac{s^2-12s-85}{(s+4)(s+5)}$

5) $\frac{10m^4n-10m}{5mn}$

2n

$\div \frac{9u^2v-8uv^2}{u^4v}$

7) $\frac{a^5}{a^3b^3+a^2b^2+ab} \div \frac{a^2b-a}{a^4b^4-ab}$

a⁴

8) $\frac{20x^2-5y^2}{9y} \times \frac{63y^2}{4x^2-y^2}$

35y