

Name : \_\_\_\_\_

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

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

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

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