

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

## Simplifying Expressions: Exponents

MS1

Simplify each expression.

1)  $(3m^5n^5p^{-2})(2m^2n^{-3}p^4)(5m^{-2}np^{-2})$

2)  $\frac{-2x^{-9}y^{-1}}{8x^{-3}y^4}$

3)  $\frac{4p^7q^2r^4}{6p^{-1}qr}$

4)  $(2x^{-3}y^{-2})^4x^{-2}$

5)  $\frac{25a^{-4}b^{-9}}{5a^{-2}b^{-3}}$

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7)  $(5u^3v^{-4}w^5)(\dots)$

9)  $\frac{3p^{-5}q^9r^7}{12p^{-2}qr^2}$

10)  $\frac{30y^7z^2}{5y^2z^{-6}}$