

Name : _____

Simplifying Expressions: Exponents

MS3

Simplify each expression.

1) $(-3x^{-3}yz)(2x^9y^{-1})$

2) $\frac{12a^{-4}b^{-2}}{24a^{-6}b^{-1}}$

3) $\frac{14p^3q^{-2}r^{-5}}{2p^{-2}q^{-4}r^{-9}}$

4) $(5a^3b^{-6})^2$

5) $\frac{-25m^9n^{-3}}{5m^{-2}n^2}$

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$s^5t^{-1}u^{-4})(10st^{15}u^5)$

7) $\frac{(3p^{-2}q^5r^3)^2}{3p^{-6}q^{-1}r^2}$

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9) $\left(\frac{2a^{-8}b^{-2}}{3a^{-2}b^{-3}}\right)^3$

10) $(-7u^{14}v^{12}w^{15})(-9u^{-9}v^2w^{-2})$