

Name : _____

Simplifying Expressions: Exponents

MS5

Simplify each expression.

1) $\frac{7v^{-10}w^{-3}x^{14}}{14v^4w^{-12}x}$

2) $(-p^{-5}r^3)(4p^8q^6)$

3) $\frac{64g^{-4}h^{-6}}{32g^{-6}h^{-6}}$

4) $8s^{-6}t^{-7}u^8$

5) $(2x^5y^{-6})(-3)$

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6) $a^9b^{-2}c^{-7})(-3a^{-6}b^3c^4)$

7) $\left(\frac{9c^{-3}d^3}{c^{-6}d^{-4}}\right)^2$

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8) $u^{-7}v^4w^9)$

9) $(6r^{-11}s^7)(9r^7s^2)$

10) $\frac{6m^3n^8}{3m^{-6}n^5}$

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Answer key

Simplifying Expressions: Exponents

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Simplify each expression.

1) $\frac{7v^{-10}w^{-3}x^{14}}{14v^4w^{-12}x}$

$\frac{w^9x^{13}}{2v^{14}}$

2) $(-p^{-5}r^3)(4p^8q^6)$

$-4p^3q^6r^3$

3) $\frac{64g^{-4}h^{-6}}{32g^{-6}h^{-6}}$

$2g^2$

4) $8s^{-6}t^{-7}u^8$

5) $(2x^5y^{-6})(-3z^8)$

$\frac{24x^{18}y^6}{z^8}$

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7) $\left(\frac{9c^{-3}d^3}{c^{-6}d^{-4}}\right)^2$

$81c^6d^{14}$

6) $a^9b^{-2}c^{-7})(-3a^{-6}b^3c^4)$

8) $8u^{-7}v^4w^9)$

9) $(6r^{-11}s^7)(9r^7s^2)$

$\frac{54s^9}{r^4}$

10) $\frac{6m^3n^8}{3m^{-6}n^5}$

$2m^9n^3$