

Algebra 1 Bellwork Tuesday, March 8, 2016

Simplify each. Make sure exponents aren't negative or zero.

1. $-12w^{-2} =$

2. $\frac{4^{-2}m^0}{n^{-3}} =$

3. $c^{-1}d^3x^{-4} =$

4. $\frac{x^{-3}y^{-4}}{-8z^5} =$

5. $\frac{-10c^{-1}}{5^{-1}e^{-3}} =$

6. $\frac{6^{-2}h^{-4}j^0m^{-2}}{9^{-1}n^{-3}q^5} =$

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1. $-12w^{-2} =$

$\frac{-12}{w^2}$

2. $\frac{4^{-2}m^0}{n^{-3}} =$

$\frac{n^3}{4^2} = \frac{n^3}{16}$

3. $c^{-1}d^3x^{-4} =$

$\frac{d^3}{c \times 4}$

4. $\frac{x^{-3}y^{-4}}{-8z^5} =$

$\frac{1}{-8x^3y^4z^5}$

5. $\frac{-10c^{-1}}{5^{-1}e^{-3}} =$

$\frac{-10 \cdot 5^1 e^3}{c^1}$

$= \frac{-50e^3}{c}$

6. $\frac{6^{-2}h^{-4}j^0m^{-2}}{9^{-1}n^{-3}q^5} =$

$\frac{9^1 n^3}{6^2 h^4 m^2 q^5}$

$= \frac{9 n^3}{36 h^4 m^2 q^5}$

$= \frac{n^3}{4 h^4 m^2 q^5}$