

Name: _____

Date: _____ Score: _____

Simplifying Exponents

1 $2v^3 \cdot vu^2$

2 $(2^2)^2 \cdot (2^4)^{-1}$

3 $\frac{2^5 \cdot 2^{-8}}{2}$

4 $\frac{4^0 \cdot 4^{-4}}{4^0}$

5 $\frac{2 \cdot 2^2}{(2^{-4})^2}$

6 $\frac{p^2 p^0}{p^4 p^2}$

7 $\frac{x^{-2}}{(x^6 y^{-4})^{-2}}$

8 $\frac{(m^{-1})^4}{m^4}$

9 $\left(\frac{x^4 y^3}{x^2 y^{-1}}\right)^0$

10 $\left(\frac{x^4 y^{-2}}{3^{-6}}\right)^{-2}$

Name:

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Simplifying Exponents

Answers

1 $2v^3 \cdot vu^2$

$2v^4u^2$

2 $(2^2)^2 \cdot (2^4)^{-1}$

1

3 $\frac{2^5 \cdot 2^{-8}}{2}$

2^{-4}

4 $\frac{4^0 \cdot 4^{-4}}{4^0}$

4^{-4}

5 $\frac{2 \cdot 2^2}{(2^{-4})^2}$

2048

6 $\frac{p^2p^0}{p^4p^2}$

p^{-4}

7 $\frac{x^{-2}}{(x^6y^{-4})^{-2}}$

$\frac{x^{14}}{y^8}$

8 $\frac{(m^{-1})^4}{m^4}$

$\frac{1}{m^8}$

9 $\left(\frac{x^4y^3}{x^2y^{-1}}\right)^0$

1

10 $\left(\frac{x^4y^{-2}}{3^{-6}}\right)^{-2}$

$\frac{y^4}{531441x^8}$