

Exponent WS #2

Date _____

Simplify. Your answer should contain only positive exponents.

1) $\left(\frac{k^2}{k^2}\right)^2$

2) $\left(\frac{x^3}{2x^2}\right)^4$

3) $\frac{n}{(n^2)^4}$

4) $\frac{(2n^2)^3}{n}$

5) $\frac{(-2xy^3)^2}{x^2}$

6) $\left(\frac{-2xy^2}{-2y^4}\right)^2$

7) $\frac{(2m^2n^2)^3}{-2nm^3}$

8) $\left(\frac{2y^4}{2x^4y^4}\right)^4$

Simplify.

9) $(x^4y^3)^5$

10) $(-x^3y^5)^4 \cdot -xy^4$

11) $x^4 \cdot (xy^4)^5$

12) $\left((-u^2v^3)^3 \cdot -u^3v^2\right)^3$

Simplify. Your answer should contain only positive exponents.

13) $\frac{y^4 \cdot x^4y^3}{(x^0y^5)^2}$

14) $\frac{uv^2}{(u^2v^4)^3 \cdot u^3v^2}$

15) $\frac{m^0n^5 \cdot mn^2}{(m^3n^0)^2}$

16) $\frac{yx^5}{(x^0)^5 \cdot y^2}$