

Section 5.1 WS

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.

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

2) $\frac{5x^3}{20x^4y^2}$

3) $\frac{-2z^4}{-y^3z^4}$

4) $\frac{4x^4y^2}{-3x^3z^3}$

5) $\frac{(yx^5)^5}{(x^3y^4)^5}$

6) $\frac{(m^6n^3)^3}{(m^4n^3)^5}$

7) $\frac{4rp^4q^2}{-2q^4r^2}$

8) $\frac{k^4}{(-2k^4)^2}$

9) $\left(\frac{u^3 v^2}{u^4 v^4}\right)^2$

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

11) $\frac{3s}{t^2} \cdot \frac{s^2}{t}$

12) $\frac{3x^2}{y^2} \cdot \frac{3x^2}{6x}$

13) $\frac{u^2}{v} \cdot \left(\frac{3v}{u^2}\right)^2$

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

15) $\left(\frac{c^3}{d^4}\right)^2 \cdot \left(\frac{3cd}{h}\right)^3$