

STATION 4

Date _____ Period _____

Simplify. Your answer should contain only positive exponents.**MIXED PROBLEMS: Follow this order of your rules: Power, Product, Quotient, Negative**

1) $b^4 \cdot (2ab^4)^2$

2) $(x^0 y^3)^{-2} \cdot yx^0$

3) $(y^{-4} \cdot x^4 y^0)^0$

4) $(a^3 b^4 \cdot 2a^{-2})^4$

5) $(a^3 b^{-3} \cdot ab^4)^4$

6) $\frac{yx^4}{3x^0 y^2 \cdot 2x^{-4} y^4}$

7) $\frac{3u^4 v^4 \cdot v^{-1}}{3uv^{-2}}$

8) $\frac{3a^{-4} b^{-3}}{3a^0 b^2 \cdot 3a^{-3} b^3 \cdot a^0 b^2}$

9) $\frac{4uv \cdot 4v^4}{4u^{-2}}$

10) $\frac{x^2 y^{-1}}{4x^0 \cdot 4x^3}$

11) $\frac{m^{-4} n^2}{(2m^{-1})^{-1}}$

12) $\frac{(2ba^{-3})^2}{2b^{-1}}$

13) $\left(\frac{2b^4}{ab^0}\right)^4$

14) $\frac{(2m^{-4} n^4)^{-1}}{m^2 n^3}$

15) $\frac{(2xy^4)^{-1}}{x^2}$