

Algebra 2: Exponent Practice Worksheet

Simplify the following problems as much as possible so that your answer uses only *positive* exponents.

1. $\frac{(kn)^{-5}}{v^2}$

2. $(x^2y^3)^0$

3. $\frac{32^{-1}}{8^{-1}}$

4. $\frac{-3^{-2}b^2}{a^0b^{-3}}$

5. $\frac{5x^2y^{-3}}{a^{-3}b^4}$

6. $(2x^2y^3)(-5x^{-2}y^7)$

7. $(2acd)^3(3cda)$

8. $\frac{1}{(2y^2z)^{-3}}$

9. $\left(\frac{2vq^6}{qv^3}\right)^{-2}$

10. $\frac{(5a^2)(6p^3)}{(2a^3)(5^{-1}p)^{-2}}$

11. $\left(\frac{4x}{2x^5}\right)^3$

12. $(-k^{-4}m^7)(3k^5m^{-1})(2k^{-2}m)$

13. $(-zy^{-3})^2(4z^6y^9)^{-2}$

14. $\frac{5^{-2}t^4u^{-3}}{t^{-7}u^6}$