

Properties of Exponents: Day 4

Unit 1: Extending the Number System

Simplify each of the following expressions.

1. $\frac{r^2}{2r^3}$	2. $\frac{x^{-1}}{4x^4}$
3. $\frac{3n^4}{3n^3}$	4. $\frac{m^4}{2m^4}$
5. $\frac{3m^{-4}}{3m^3}$	6. $\frac{2x^4y^{-4}z^{-3}}{3x^2y^{-3}}$
7. $\frac{4x^0y^{-2}z^3}{4x}$	8. $\frac{2h^3j^{-3}k^4}{3jk}$
9. $\frac{4m^4n^3p^3}{3m^2n^2p^4}$	10. $\frac{3x^3y^{-1}z^{-1}}{x^{-4}y^0z^0}$

11. $\frac{(2m^2)^{-1}}{m^2}$	12. $\frac{2x^3}{(x^{-1})^3}$
13. $(a^{-3}b^{-3})^0$	14. $x^4y^3(2y^2)^0$
15. $ba^4(2ba^4)^{-3}$	16. $(2x^0y^2)^{-3} \cdot 2yx^3$
17. $\frac{2k^3 \cdot k^2}{k^{-3}}$	18. $\frac{(x^{-3})^4 x^4}{2x^{-3}}$
19. $\frac{(2pm^{-1}q^0)^{-4} \cdot 2m^{-1}p^3}{2pq^2}$	20. $\frac{(2hj^2k^{-2} \cdot h^4j^{-1}k^4)^0}{2h^{-3}j^{-4}k^{-2}}$