

Properties of Exponents: Day 3

Unit 1: Extending the Number System

Focus on Power of a Product and Power of a Quotient

1. $2x^3y^{-4} \cdot 2y^2 \cdot xy^3$	2. $3x^{-4}y^4 \cdot 3y^2 \cdot 3yx^5$
3. $x^4 \cdot 2yx^{-2}$	4. $4m^{-3}n^4 \cdot 2m^3n^{-1}$
5. $\frac{2u^2v^0}{2u^4v^2}$	6. $\frac{2y}{2yx^2}$
7. $\frac{2x^3}{x^{-4}y^{-4}}$	8. $\frac{yx^{-1}}{y^{-3}}$
9. $(2y^3)^{-2}$	10. $(x^0y^4)^2$

11. $(3a^{-2})^2$

12. $(2u^4)^4$

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

14. $(x^4 \cdot 2xy^2)^4$

15. $(2y^2)^{-2} \cdot xy^0$

16. $n \cdot (2nm^2)^2$

17. $\frac{(y^0 \cdot 2x)^3}{x^3y^{-4}}$

18. $\left(\frac{(2n^3)}{2m^0n^0 \cdot n^2}\right)^3$

19. $\frac{2x^4y^3 \cdot 2x^4y^{-2}}{(2x^{-3})^2}$

20. $\frac{2x^3y^4}{(2x^2y^{-1} \cdot x^{-3}y^2)^{-3}}$