

Negative Exponents #1

Name _____

Simplify

1. $\frac{m^{-7}}{m^3}$

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

3. $\frac{c^2d^{-7}}{c^{-2}d^6}$

4. $\frac{9d^{-7}}{3d^6}$

5. $\frac{12n^5}{36n^{-8}}$

6. $\frac{r^{-3}s^{-2}}{r^3s^4}$

7. $\frac{w^4u^3}{w^4u^{-8}}$

8. $\frac{a^{-5}b^3}{a^{-7}b^2}$

9. $\frac{15x^{-3}y^{-5}}{-3x^5y^2}$

10. $\frac{-24d^{-8}k}{8d^{-7}k^2}$

11. $\frac{10a^{-10}b^5}{2a^{11}b^{-5}}$

13. $\frac{8a^{-11}b^7}{-2a^5b^{-9}}$

14. $\frac{-27x^5y^4}{9x^{-3}y^{-4}}$

15. $\frac{12d^{-2}ef^{-2}}{2de^{-2}f^2}$

16. $\frac{-21w^{-5}u^2}{7w^4u^{-5}}$

17. $\frac{32x^{-3}y^{-2}z^{-5}}{-8xyz^2}$

18. $\frac{48r^{-12}s^8}{16r^{-14}s^6}$

19. $a^2a^{-3}a^6$

$$20. (cd^{-2})(c^{-3}d^2) \quad 21. (e^{-2}f^{-4})(ef)^2 \quad 22. x(x^{-2})(x^7)$$

$$23. (y^2z)(yz^{-2}) \quad 24. (x^{-2}y^{-2})(x^3y) \quad 25. (10^{-2})^3$$

$$26. 4^{-3}$$

$$27. 3^{-2}$$

$$28. 5^{-3}$$

$$29. \left(\frac{2}{3}\right)^{-2}$$

$$30. \left(\frac{3}{7}\right)^{-2}$$