

Practice

Negative Exponents**Write each expression using positive exponents. Then evaluate the expression.**

1. 2^{-6}

2. 5^{-1}

3. 8^{-2}

4. 10^{-3}

Simplify each expression.

5. g^{-6}

6. s^{-1}

7. q^0

8. $a^{-2}b^2$

9. m^5n^{-1}

10. $p^{-1}q^{-6}r^3$

11. $x^{-3}y^2z^{-4}$

12. $a^{-2}b^0c^{-1}$

13. $12m^{-6}n^4$

14. $7xy^{-8}z$

15. $x^{-3}(x^2)$

16. $b^3(b^{-5})$

17. $\frac{b^3}{b^6}$

18. $\frac{y^3}{y^{-2}}$

19. $\frac{m^5n^3}{m^6n^2}$

20. $\frac{xy^2}{xy^3}$

21. $\frac{a^7b^4}{a^9b^2}$

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

23. $\frac{16c^8}{4c^{10}}$

24. $\frac{9x^{-5}y^5}{36x^4y^3}$

25. $\frac{7p^2q^6}{21p^{-3}q^7}$

26. $\frac{-6m^5n^2q^{-1}}{36m^{-2}n^4q^{-1}}$

27. $\frac{4a^3b^2c^2}{6a^5b^3c}$

28. $\frac{28x^5y^{-3}z}{-4x^4yz^3}$