

Simplify.

1. $(abc^7)(5a^6b^4c)$

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

3. $(3a^5b^3)^2$

4. $x^2y^3 \cdot 2x^2y^5 \cdot 8x^3y$

5. $(-2m^{-4}n^8)^2$

6. $\left(\frac{5}{2}\right)^3$

7. $(8x^3)^{-2}$

8. $(3a^3b^4) \cdot 5a^4b^2$

9. $\left(\frac{1}{4}xy^5\right)^2$

10. $(-5xy^3)^2 \cdot 2x^{-2}y^2$

11. $(-3)^3$

12. -2^2

13. $\frac{y^2z^3}{y^4z^6}$

14. $\frac{-2x^3z^5}{12x^4z^2}$

15. $(xy^2)^0$

16. $5x^{-2}$

17. $\frac{10ab^4}{15a^{-2}b^6}$

18. $\frac{4}{2x^{-3}}$

19. $\frac{-36a^2b^6c^{-2}}{18a^{-3}b^{-1}c^4}$

20. $\left(\frac{6}{x^0 + y^0}\right)$

Express in scientific notation.

21. $(6.1 \times 10^5)(2.2 \times 10^6)$

22. $(3.7 \times 10^{-5})^2$

23. $\frac{(9.9 \times 10^9)}{1.5 \times 10^8}$