

Independent Practice

In Exercises 6–17, rewrite the expression using positive exponents.

6. x^{-7}

7. x^{-9}

8. $5x^{-4}$

9. $3x^{-2}$

10. $\frac{1}{2x^{-3}}$

11. $\frac{1}{4x^{-5}}$

12. $x^{-2}y^3$

13. x^6y^{-7}

14. $3x^{-3}y^{-8}$

15. $6x^{-2}y^{-4}$

16. $\frac{1}{7x^{-4}y^{-1}}$

17. $\frac{1}{2x^{-10}y^{12}}$

In Exercises 18–29, evaluate the expression.

18. 3^{-2}

19. 2^{-4}

20. $-4^0 \cdot \frac{1}{2^{-2}}$

21. $4^{-3} \cdot 4^2$

22. $6^3 \cdot 6^{-1}$

23. $8^4 \cdot 8^{-4}$

24. $7^{-9} \cdot 7^9$

25. $(5^{-3})^2$

26. $(-4^{-2})^{-1}$

27. $-6 \cdot (-6)^{-1}$

28. $5 \cdot 5^{-1}$

29. $2^0 \cdot 3^{-3}$

In Exercises 30–41, rewrite the expression using positive exponents.

30. $(-3)^0x$

31. $(5y)^{-2}$

32. $(-2x)^{-3}$

33. $(-4a)^0$

34. $(-3x)^{-1} \cdot 2y$

35. $(4xy)^{-2}$

36. $(3x)^{-1}$

37. $(2a^{-3})^3$

38. $\frac{4}{b^{-2}}$

39. $\frac{5}{a^{-4}}$

40. $\frac{1}{(4x)^{-3}}$

41. $\frac{1}{(2y)^{-5}}$