

Exponent Rules Remediation

- The product of $3x^2y^3$ and $-4x^3y^4$ is _____
A. $-7x^5y^7$ B. $-x^5y^7$ C. $-12x^5y^7$ D. $-12x^6y^{12}$
- What is the product of $(-2x^3)(5x^{-4})$? _____
A. $-10x^{12}$ B. $-10x^{-1}$ C. $3x^7$ D. $10x^7$
- The expression $(-2a^2b^3)(4ab^5)(6a^3b^2)$ is equivalent to _____
A. $8a^6b^{30}$ B. $48a^5b^{10}$ C. $-48a^6b^{10}$ D. $-48a^5b^{10}$
- The quotient of $\frac{-18x^6}{6x^3}$ is equal to _____
A. $-3x^3$ B. $-3x^2$ C. $-12x^2$ D. $-12x^3$
- The quotient of $\frac{28x^4y^2}{14xy}$ is _____
A. $2x^3y$ B. $2x^4y^3$ C. $14x^3y$ D. $14x^4y^2$
- The expression $(-4a^3b)^2$ is equivalent to _____
A. $-16a^6b^2$ B. $16a^6b^2$ C. $16a^5b^2$ D. $8a^6b^2$
- What is the value of 2^{-3} ? _____
A. $\frac{1}{6}$ B. $\frac{1}{8}$ C. -6 D. -8
- Which expression is equivalent to x^{-4} ? _____
A. $\frac{1}{x^4}$ B. x^4 C. $-4x$ D. 0
- The expression $(3c)^{-2}$ is equivalent to _____
A. $-6c^2$ B. $\frac{1}{3c^2}$ C. $\frac{1}{9c^2}$ D. $\frac{3}{c^2}$

1.
Answer: C
2.
Answer: B
3.
Answer: C
4.
Answer: A
5.
Answer: A
6.
Answer: B
7.
Answer: B
8.
Answer: A
9.
Answer: C