

Properties of Exponents

Simplify. Your answer should contain only positive exponents.

1) $2m^2 \cdot 2m^3$
 $4m^5$

2) $m^4 \cdot 2m^{-3}$
 $2m^1 = 2m$

3) $4r^{-3} \cdot 2r^2$
 $8r^{-1} = \frac{8}{r}$

4) $4n^4 \cdot 2n^{-3}$
 $8n^1 = 8n$

5) $2k^4 \cdot 4k$
 $8k^5$

6) $2x^2y^{-3} \cdot 2x^1y^3$
 $4x^3y^0 = 4x^3$

7) $2y^2 \cdot 3x$
 $6xy^2$

8) $4v^2 \cdot uv^2$
 $4\sqrt{4}u^2 = 4u^2v^4$

9) $4a^3b^2 \cdot 3a^{-4}b^{-3}$
 $12a^{-1}b^{-1} = \frac{12}{ab}$

10) $x^2y^{-4} \cdot x^2y^2$
 $x^4y^{-2} = \frac{x^4}{y^2}$

11) $(x^2)^0$
1

12) $(2x^2)^{-4}$
 $\frac{1}{2^4x^8} = \frac{1}{16x^8}$

13) $(4r^3)^4$
 $(4)^4 = 256$

14) $(4a^3)^2$
 $16a^6$

15) $(3k^4)^4$
 $81k^{16}$

16) $(4xy)^{-1}$
 $\frac{1}{4xy}$

Exponent Practice 1 Answer Key Algebra 2 Unit 09

Chao Zhang



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