

Lesson 8-4: More Multiplication Properties of Exponents

Part 2: Raising a Product to a Power

1. 010728a, P.I. A.A.12

The expression $(6x^3y^6)^2$ is equivalent to

- [A] $36x^6y^{12}$ [B] $12x^6y^{12}$
[C] $6x^6y^{12}$ [D] $36x^5y^8$

2. 010529a, P.I. A.A.12

Expressed in its simplest form,
 $(3x^3)(2y)^2(4x^4)$ is equivalent to

- [A] $48x^{12}y^2$ [B] $48x^7y^2$
[C] $24x^7y^2$ [D] $24x^{12}y^2$

3. 010506a, P.I. A.A.12

The product of $(5ab)$ and $(-2a^2b)^3$ is

- [A] $-40a^6b^4$ [B] $-40a^7b^4$
[C] $-30a^7b^4$ [D] $-30a^6b^4$

[1] A

[2] B

[3] B