

Properties of Exponents

Simplify each expression.

1. $3x^2 \cdot 4x^5$

2. $5x \cdot x^3$

3. $(2x^3y^5)(7x^2y^8)$

4. $(x^7)^3$

5. $(y^5)^4$

6. $(3x^2y^4)^3$

7. $(4xy^3)^2$

8. $(5x^3)^2(2x^5)^3$

9. $\frac{x^{10}y^6}{x^4y^3}$

10. $\frac{8x^{12}y^9}{2x^4y^3}$