

Assume that no denominator is equal to Zero on this worksheet.
Simplify the expression using the Product of Powers rule.

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

2. $a^{15} \cdot a^{11}$

3. $3y^8 \cdot 2y^2$

4. $5j^4(-9j^5)$

Simplify the expression using the Power of a Power rule.

5. $(x^5)^2$

6. $(a^3)^6$

7. $(h^4)^3$

8. $[(k^5)^2]^3$

Simplify the expression using Power of a Product Rule

9. $(xy)^7$

10. $(4gz)^2$

11. $(-2awy)^3$

12. $-3(km)^4$

Simplify the expression using Quotient of Powers Rule.

13. $\frac{d^8}{d^4}$

14. $\frac{t^9}{t^3}$

15. $\frac{a^5b^3}{a^2d}$

16. $\frac{x^3y^2z}{x^2y^2}$