

Worksheet 1-4

Simplify the Power to a Power

1. $(a^2)^4 =$

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

3. $(a^5b^4)^2 =$

4. $(2^25^6)^3 =$

5. $[(a^2)^3]^4 =$

6. $[(3^2)^7]^2 =$

Mixed Review: Simplify

7. $\frac{4^2}{4} =$

8. $y^3 \cdot y^5 =$

9. $\frac{a^3b^6}{a^2b^4} =$

10. $\frac{1}{x^{-8}} =$

11. $4^9 \cdot 4^3 =$

12. $(m^8n)(m^2n^5) =$

13. $(a^2)^4 =$

14. $(4^3)^6 =$

15. $[(y^2)^2]^5 =$

16. $(a^3b^2)^4 =$

Extension: Simplify

1. $\frac{a^3 \cdot a^6 \cdot b^{10}}{a^2 \cdot b^4} =$

2. $\frac{4^{-6} \cdot 9^{-8} \cdot 9^5}{4^4} =$

Connect Numbers:

1 - 752

