

Power/Product to a Power

Simplify each expression.

1. $(x^4)^3$

2. $(xy)^5$

3. $(3xy)^4$

4. $(x^{-4})^{-2}$

5. $\left(\frac{2}{7}\right)^3$

6. $(x^{-8})^{-1}$

7. $(8x^3z)^2$

8. $(b^2)^3$

9. $\left(\frac{x}{3}\right)^4$

10. $(x^0)^5$

11. $(5^2)^2$

12. $(3xy^2)^3(x^3y)^2$