

Properties of Exponents



Simplify

1. 6^{-2}

4. $\frac{27n^4}{3n^3}$

7. $8^{1/3}$

2. 3^0

5. $\frac{2x^4y^{-4}z^{-3}}{3x^2y^{-3}z^4}$

8. $125^{2/3}$

3. $(-3)^{-3}$

6. $x^2y^{-4} \cdot x^3y^2$

9. $4^{3/2}$

Fill in the bracket with the correct number to make each statement true.

10. $256^{\frac{[\]}{4}} = 4$

11. $[\]^{\frac{3}{4}} = 125$

12. $36^{\frac{[\]}{2}} = 216$