

Exponent Practice

Monday, September 23, 2019 7:46 AM

$$(x^{-2}x^{-3})^4$$

$$(x^4)^{-3} \cdot 2x^4$$

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

$$\frac{3x^3 y^{-1} z^{-1}}{x^{-4} y^0 z^0}$$

$$\frac{3x^2y^2}{2x^{-1} \cdot 4yx^2}$$

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

$$\frac{(2hj^2k^{-2} \cdot h^4j^{-1}k^4)^0}{2h^{-3}j^{-4}k^{-2}}$$

Solve (a) $5^x = 125$, (b) $4^x = 2^{x-3}$, and (c) $9^{x+2} = 27^x$.

Solve the equation. Check your solution.

1. $2^{2x} = 2^6$

2. $5^{2x} = 5^{x+1}$

3. $7^{3x+5} = 7^{x+1}$

Solve the equation. Check your solution.

4. $4^x = 256$

5. $9^{2x} = 3^{x-6}$

6. $4^{3x} = 8^{x+1}$

7. $\left(\frac{1}{3}\right)^{x-1} = 27$

$$6^{x+1} = 6^5$$

$$4^{3x-9} = 16$$

$$3^{4x-5} = 81$$

$$12^{\frac{1}{2}x+7} = 144$$

$$216^{5x+8} = 1296^{2x-3}$$
