

Exponent Laws Assignment

Simplify. Your answer should contain only positive exponents.

1) $6x^3 \cdot 2x^2$

2) $mn \cdot 5mn^3$

3) $-8n^{-4} \cdot 7n^2 \cdot 4n^3$

4) $\frac{6x^3}{4x}$

5) $\frac{10m^3n^3}{4m^5n^4}$

6) $\frac{8x^4y^4}{6xy}$

7) $-\frac{7x^4y^3}{8xy^{-1}}$

8) $(4x^4 \cdot x^3)^2$

9) $\frac{4m^3}{(2m^2)^2}$

10) $\left(\frac{2u^4v^2}{u^3v^{-2} \cdot 4v^2}\right)^2$

Exponent Laws Assignment

Simplify. Your answer should contain only positive exponents.

1) $6x^3 \cdot 2x^2$

$12x^5$

2) $mn \cdot 5mn^3$

$5m^2n^4$

3) $-8n^{-4} \cdot 7n^2 \cdot 4n^3$

$-224n$

4) $\frac{6x^3}{4x}$

$\frac{3x^2}{2}$

5) $\frac{10m^3n^3}{4m^5n^4}$

$\frac{5}{2m^2n}$

6) $\frac{8x^4y^4}{6xy}$

$\frac{4x^3y^3}{3}$

7) $-\frac{7x^4y^3}{8xy^{-1}}$

$-\frac{7y^4x^3}{8}$

8) $(4x^4 \cdot x^3)^2$

$16x^{14}$

9) $\frac{4m^3}{(2m^2)^2}$

$\frac{1}{m}$

10) $\left(\frac{2u^4v^2}{u^3v^{-2} \cdot 4v^2}\right)^2$

$\frac{u^2v^4}{4}$