



## Exponents - Power Law with Variable Base (Negatives, Expanded Fraction to Fraction with Power)

**1** Find the answer when these terms are multiplied

$$\frac{1}{m^2} \cdot \frac{1}{m^2} \cdot \frac{1}{m^2} \cdot \frac{1}{m^2}$$

A  $\frac{1}{m^{800}}$

B  $\frac{1}{m^8}$

C  $\frac{1}{m^6}$

**2** Find the answer when these terms are multiplied

$$\frac{1}{n} \cdot \frac{1}{n} \cdot \frac{1}{n} \cdot \frac{1}{n}$$

A  $\frac{1}{n^4}$

B  $\frac{1}{n^3}$

C  $\frac{1}{n^{400}}$

D  $n^3$

**3** Find the answer when these terms are multiplied

$$\frac{1}{n^2} \cdot \frac{1}{n^2} \cdot \frac{1}{n^2}$$

A  $n$

B  $\frac{1}{n^6}$

C  $\frac{1}{n^{600}}$

D  $n^0$

E  $\frac{1}{n^{60}}$

**4** Find the answer when these terms are multiplied

$$\frac{1}{b} \cdot \frac{1}{b} \cdot \frac{1}{b} \cdot \frac{1}{b}$$

A  $b^3$

B  $\frac{1}{b^4}$

C  $1$

D  $b^0$

E  $\frac{1}{b^{400}}$

**5** Find the answer when these terms are multiplied

$$\frac{1}{d^3} \cdot \frac{1}{d^3} \cdot \frac{1}{d^3}$$

A  $d^0$

B  $\frac{1}{d^{900}}$

C  $\frac{1}{d^9}$

D  $\frac{1}{d^{10}}$

E  $\frac{1}{d^7}$

**6** Find the answer when these terms are multiplied

$$\frac{1}{z^2} \cdot \frac{1}{z^2}$$

A  $\frac{1}{z^3}$

B  $z^0$

C  $\frac{1}{z^4}$

D  $1$

**7** Find the answer when these terms are multiplied

$$\frac{1}{n} \cdot \frac{1}{n} \cdot \frac{1}{n}$$

A  $n^0$

B  $\frac{1}{n^3}$

C  $n^2$

D  $\frac{1}{n^2}$

E  $\frac{1}{n^{300}}$

**8** Find the answer when these terms are multiplied

$$\frac{1}{r^3} \cdot \frac{1}{r^3} \cdot \frac{1}{r^3} \cdot \frac{1}{r^3}$$

A  $\frac{1}{r^{120}}$

B  $\frac{1}{r^{12}}$

C  $\frac{1}{r^{1,200}}$

D  $r$

E  $1$