

Five most common laws of indices | 五大必考指數定律

1. $a^m a^n = a^{m+n}$

2. $\frac{a^m}{a^n} = a^{m-n}$

3. $a^{-n} = \frac{1}{a^n}$

4. $(ab)^m = a^m b^m$

5. $(a^m)^n = a^{mn}$



MC 1 - Law of Indices | 指數定律

I. Variable Base | 底變數

1. $\frac{(4a^3)^3}{2a^2} =$

- A. $2a^4$
- B. $2a^7$
- C. $32a^4$
- D. $32a^7$

2. $\frac{6x^4}{4(2x^{-3})^{-2}} =$

- A. $6x^{10}$
- B. $96x^{10}$
- C. $\frac{6}{x^2}$
- D. $\frac{96}{x^2}$

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3. $\left(\frac{x^6}{2x}\right)^{-5} =$

A. $2x^4$

B. $2x^7$

C. $32x^4$

D. $\frac{32}{x^{25}}$

4. $\frac{27y^{-3}}{(6y^{-2})^3} =$

A. $\frac{3}{2y^3}$

B. $\frac{3y^3}{2}$

C. $\frac{y^3}{8}$

D. $\frac{1}{8y^3}$