

指數法則

$$a^2 \times a^5$$

指數法則

$$a^2 \times a^5 = \underbrace{a \times a}_{2\text{ 個}} \times \underbrace{a \times a \times a \times a \times a}_{5\text{ 個}}$$

指數法則

$$\begin{aligned}a^2 \times a^5 &= \underbrace{a \times a}_{\text{2 個}} \times \underbrace{a \times a \times a \times a \times a}_{\text{5 個}} \\&= \underbrace{a \times a \times a \times a \times a \times a \times a}_{\text{7 個}}\end{aligned}$$

指數法則

$$\begin{aligned}a^2 \times a^5 &= \underbrace{a \times a}_{\text{2 個}} \times \underbrace{a \times a \times a \times a \times a}_{\text{5 個}} \\&= \underbrace{a \times a \times a \times a \times a \times a \times a}_{\text{7 個}} \\&= a^7\end{aligned}$$

指数法則

つまり

$$\star^{\circ} \times \star^{\triangle} = \star^{\circ} + \triangle$$

指數法則

$$(a^2)^3$$

指數法則

$$(a^2)^3 = \underbrace{a^2 \times a^2 \times a^2}_{3\text{ 個}}$$

指數法則

$$\begin{aligned}(a^2)^3 &= \underbrace{a^2 \times a^2 \times a^2}_{3 \text{ 個}} \\&= \underbrace{a \times a}_{2 \text{ 個}} \times \underbrace{a \times a}_{2 \text{ 個}} \times \underbrace{a \times a}_{2 \text{ 個}}\end{aligned}$$

指數法則

$$\begin{aligned}(a^2)^3 &= \underbrace{a^2 \times a^2 \times a^2}_{3\text{ 個}} \\&= \underbrace{a \times a}_{2\text{ 個}} \times \underbrace{a \times a}_{2\text{ 個}} \times \underbrace{a \times a}_{2\text{ 個}} \\&= \underbrace{a \times a \times a \times a \times a \times a}_{6\text{ 個}}\end{aligned}$$

指數法則

$$\begin{aligned}(a^2)^3 &= \underbrace{a^2 \times a^2 \times a^2}_{3\text{ 個}} \\&= \underbrace{a \times a}_{2\text{ 個}} \times \underbrace{a \times a}_{2\text{ 個}} \times \underbrace{a \times a}_{2\text{ 個}} \\&= \underbrace{a \times a \times a \times a \times a \times a}_{6\text{ 個}} \\&= a^6\end{aligned}$$

指数法則

つまり

$$(\star^{\circlearrowleft})^{\triangle} = \star^{\circlearrowleft} \times \triangle$$

指數法則

$$(ab)^4$$

指數法則

$$(ab)^4 = \underbrace{ab \times ab \times ab \times ab}_{4 \text{ 個}}$$

指數法則

$$\begin{aligned}(ab)^4 &= \underbrace{ab \times ab \times ab \times ab}_{4 \text{ 個}} \\&= a^4 b^4\end{aligned}$$

指数法則

つまり

$$(\star \diamondsuit)^{\bullet} = \star^{\bullet} \diamondsuit^{\bullet}$$

指數法則

$$a^2 \div a^5$$

指數法則

$$a^2 \div a^5 = \frac{a^2}{a^5}$$

指數法則

$$\begin{aligned} a^2 \div a^5 &= \frac{a^2}{a^5} \\ &= \frac{a \times a}{a \times a \times a \times a \times a} \end{aligned}$$

指數法則

$$\begin{aligned} a^2 \div a^5 &= \frac{a^2}{a^5} \\ &= \frac{a \times a}{a \times a \times a \times a \times a} \\ &= \frac{1}{a \times a \times a} \end{aligned}$$

指數法則

$$\begin{aligned} a^2 \div a^5 &= \frac{a^2}{a^5} \\ &= \frac{a \times a}{a \times a \times a \times a \times a} \\ &= \frac{1}{a \times a \times a} = \frac{1}{a^3} = a^{-3} \end{aligned}$$

指数法則

つまり

$$\star^{\circ} \div \star^{\triangle} = \star^{\circ - \triangle}$$