



القوى والجذور - الصف التاسع مستوى أ

حلوا التمارين التالية : اشرحوا طريقة الحل

$$\frac{\sqrt{40} \cdot \sqrt{18}}{\sqrt{80}} = ? \quad .1$$

(1) 1 (2) 2 (3) 3 (4) 4

$$\left(\frac{8}{b^3}\right)^{\frac{1}{3}} = ? \quad .2$$

(1) $\frac{b}{2}$ (2) $\frac{b}{4}$ (3) $\frac{2}{b}$ (4) $\frac{4}{b}$

$$a \cdot \sqrt{a} = 8 \quad .3$$

(1) $\sqrt{2}$ (2) 2 (3) 4 (4) $\sqrt{8}$

$$\sqrt{\frac{x}{\sqrt{x}}} = ? \quad .4$$

(1) x (2) \sqrt{x} (3) $\sqrt[3]{x}$ (4) $\sqrt[4]{x}$



$$x = ? \quad x \cdot \sqrt{x} = 27 \quad . \quad 5$$

- $9\sqrt{3}$ (4) 9 (3) $3\sqrt{3}$ (2) 3 (1)

$$x = ? \quad 4 \cdot 2^{2x} = 16 \cdot 2^x \quad . \quad 6$$

- 3 (4) 2 (3) 1 (2) 0 (1)

$$\frac{a^a \cdot a}{a^2} = ? \quad . \quad 7$$

- $a^{0.5a+1}$ (4) a^{2a-1} (3) a^{a+1} (2) a^{a-1} (1)

$$\sqrt{\frac{3}{20}} \cdot \sqrt{\frac{4}{15}} = ? \quad . \quad 8$$

- $\frac{1}{20}$ (4) $\frac{1}{10}$ (3) $\frac{1}{5}$ (2) $\frac{1}{2}$ (1)



$$b = ?$$

$$\sqrt{a} \cdot b = \sqrt{b} \quad .9$$

$$a^{-2} \quad (4$$

$$a^{-1} \quad (3$$

$$a^2 \quad (2$$

$$a \quad (1$$

$$\sqrt{2^3} \cdot \sqrt{2 \cdot 5^2} = ? \quad .10$$

$$27 \quad (4$$

$$25 \quad (3$$

$$20 \quad (2$$

$$16 \quad (1$$

$$x = ?$$

$$6^x = 2^5 \cdot 3^x \quad .11$$

$$6 \quad (4$$

$$5 \quad (3$$

$$2 \quad (2$$

$$1 \quad (1$$

$$81^2 \cdot 25^4 = ? \quad .12$$

$$3^6 \cdot 5^7 \quad (4$$

$$9^4 \cdot 5^6 \quad (3$$

$$9^3 \cdot 5^7 \quad (2$$

$$15^8 \quad (1$$