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✓ ① = 4 - 1

⑦

$$(-\infty, -1) \cup (1, +\infty) \quad \checkmark$$

②

$$\log_a a = 1 \rightarrow a = a \quad \checkmark$$

⑦

②

$$\frac{1}{1/4} + \frac{1}{3/4} \rightarrow \frac{4+1}{3/4} \rightarrow \frac{5}{3/4}$$

$$\lg 5 = 1/5 \quad \lg_{10} 10 = 1/10 \quad \lg_{10} 2, \lg_{10} 5 + \lg_{10} 10 \rightarrow \frac{1}{\lg_{10} 5} + \frac{1}{\lg_{10} 10} \quad (r)$$

$$\rightarrow \frac{1}{\lg_{10} 5 + \lg_{10} 10} = \frac{1}{\lg_{10} 5 + \lg_{10} 10} \quad \lg_{10} 5 = \frac{1/5}{1/10} = 1/5 \times 1/10 = 2/10$$

$$\frac{1}{5} + \frac{1}{10} \rightarrow \frac{1}{5} + \frac{1}{10} = \frac{2}{10} + \frac{1}{10} = \frac{3}{10} \Rightarrow \frac{10}{3} \lg_{10} 5 \quad \checkmark$$

$$\log^{\frac{1}{n}}_0 1 = m \quad \log^{\frac{1}{r}}_0 1 = ? \rightarrow \log^{\frac{1}{r}}_0 1 \rightarrow \frac{1}{r} \log^{\frac{1}{r}}_0 1 \rightarrow \frac{1}{r} (r + \log^{\frac{1}{r}}_0 1) \quad (r)$$

[illegible]

$$\begin{aligned} \lg r &= a & \lg \frac{b}{\lambda} &= \frac{r}{r} (1+a) & \lg(rb-\lambda) &=? & \textcircled{r} \\ \lg \frac{b}{\lambda} &= \frac{r}{r} (1+\lg r) = \frac{r}{r} (\lg 2) \rightarrow \lg \frac{b}{\lambda} = \lg 2 \rightarrow b = \lambda \checkmark \\ \lg(rb-\lambda) &= \lg(r \times 2 - \lambda) = \lg(10) = 1 \checkmark \end{aligned}$$

اسر محمد فردوس

$$-2a\sqrt{r} + b\sqrt{r} + \frac{1}{r}c = 0 \quad \frac{2a}{b}$$

$$\log 2 = \frac{2a}{b} \rightarrow \log 2 = \frac{2a}{b} \rightarrow \log \sqrt{2} = \frac{a}{b}$$

$$\left(\frac{1}{\sqrt{2}}\right)^{r - \frac{b}{a}}$$

$$\left(\frac{1}{\sqrt{2}}\right)^{\frac{b}{a} - 2} \rightarrow \log \frac{1}{\sqrt{2}} - 2$$

$$\log 2$$

$$\left(\frac{1}{\sqrt{2}}\right)^a = 2$$

$$a = \frac{b + 2}{2}$$

$$2a = b + c$$

$$\Rightarrow \frac{c}{a} = \frac{2a - b}{a}$$

$$\left(\frac{1}{\sqrt{2}}\right)^{\log \frac{1}{\sqrt{2}}}$$

$$\frac{1}{\sqrt{2}} = \left(\frac{1}{\sqrt{2}}\right)^{r - \frac{b}{a}}$$

(2)