

20

پیدا کردن جواب

$$f(x) = r^{A+B} \quad y = r^x$$

(1) دانه

$$f(1) = y(1) \Rightarrow r^{A+B} = 1 \Rightarrow A+B = \dots \quad (1) \quad \left\{ \begin{array}{l} -A+B = \dots \\ r^A + r^B = r \\ r^A = r \Rightarrow \left\{ \begin{array}{l} B = -1 \\ A = 1 \end{array} \right. \end{array} \right. \quad (2)$$

$$f(r) = y(r) \Rightarrow r^{rA+B} = r \Rightarrow rA+B = r \quad (r) \quad \left\{ \begin{array}{l} -A+B = \dots \\ r^A + r^B = r \\ r^A = r \Rightarrow \left\{ \begin{array}{l} B = -1 \\ A = 1 \end{array} \right. \end{array} \right.$$

جواب

$$f(x) = r^{x-1} \quad f(\cdot) \quad f(\cdot) = r^{-1} \Rightarrow \frac{1}{r}$$

$$\log_r (r^2 + 10) = 2 + r \Rightarrow r^{2+r} = r^2 + 10 \Rightarrow (r^2)^r + 10 \quad (r) \text{ دانه}$$

$$\Rightarrow t^r - 10t + 10 \Rightarrow (t-r)(t-d) \quad \left\{ \begin{array}{l} t_1 = r \\ t_2 = d \end{array} \right. \quad \left\{ \begin{array}{l} r^2 = r \Rightarrow r_1 = \log_r r \\ r^2 = 10 \Rightarrow r_2 = \log_r 10 \end{array} \right. \quad (3)$$

$$r_1 + r_2 = \log_r r + \log_r 10 = \log_r 10$$

$$(\log_{11}^r)^r + \log_{11}^{(1+r)} \log_{11}^{(1+r)} = (\log_{11}^r)^r + \log_{11}^{(11 \times V)} (\log_{11}^{11^r \times r}) \quad (4) \text{ دانه}$$

$$\Rightarrow (\log_{11}^r)^r + (\log_{11}^{1+r} + \log_{11}^V) (\log_{11}^{11^r} + \log_{11}^r) = (\log_{11}^r)^r + \underbrace{(1 + \log_{11}^V)}_{(x)} (r+1 + \log_{11}^r)$$

$$\Rightarrow (\log_{11}^r)^r + r + \log_{11}^r + r \log_{11}^V + \log_{11}^V \times \log_{11}^r$$

$$\Rightarrow \log_{11}^r (\log_{11}^r + \log_{11}^V) + r + \log_{11}^r + r \log_{11}^V = \log_{11}^r + r + \log_{11}^r + r \log_{11}^V$$

$$\Rightarrow r \log_{11}^r + r + r \log_{11}^V = r (\log_{11}^r + \log_{11}^V) + r = r \log_{11}^{11} + r = r + r = \{ \}$$

جواب

$$\log(z^r - rz + 1) + r \log(1-z) = d$$

$$\log_r(-z) = ?$$

(فدال)

$$\log(1-z)^r + \log(1-z)^r = d$$

$$\Rightarrow \log_{1.0}^{-(z-1)^d} = d$$

$$\Rightarrow (1-z)^d = 1.0^d$$

$$\Rightarrow 1-z = 1.0 \Rightarrow z = -1$$

$$\log_r^{(9)} = 1$$

(5)

$$\log_r^{(2^r + r_2 + r)} + \log_r^{(2-r)} = r \Rightarrow \log_r^{(2^r + r_2 + r)/(2-r)} = r \quad (\text{دال 5})$$

$$2^r - 1 = 1 \Rightarrow 2^r = 14 \Rightarrow 2 = \sqrt[14]{14} \quad \log_{\sqrt[14]{14}}^{\sqrt[14]{14}} \Rightarrow \frac{1}{14} \times 14 \log_r^{14} \quad (5)$$

$$\Rightarrow \frac{14}{r} \log = \{ r \}$$

$$\log^{(r-2)} - \log \frac{1}{(r-2)^r} = r \Rightarrow \log^{(r-2)} - \log^{(r-2)^{-r}} = r \quad (\text{دال 5})$$

$$\Rightarrow \left\{ \begin{array}{l} r \log^{r-2} = r \Rightarrow r = -1 \\ \log^{r-2} + r \log^{r-2} = r \end{array} \right. \quad \log_{\sqrt{r}}^{(r-2)} \cdot \log_{\sqrt{r}}^1 = \log_{r^{1/4}}^r = \{ r \}$$

$$r^{2^r - r} = 11^r \Rightarrow r^{2^r - r} = r^{r_2} \Rightarrow 2^r - r = r_2 \Rightarrow 2^r - r_2 - r = 0 \quad (\text{دال 5})$$

$$2^r - r_2 = r \Rightarrow 2^r - r_2 + r = 4 \Rightarrow (2-r)^r = 4 \Rightarrow 2-r = \pm \sqrt{4} \quad \log_{\sqrt{4}}^{(2-r)} = ?$$

$$\Rightarrow \log_{\sqrt{4}}^{(2-r)} = \log_{\sqrt{4}}^{\sqrt{4}} = \frac{1}{r} \log_{\sqrt{4}}^4 = \left\{ \frac{1}{r} \right\}$$

$$\log_{\mu}^r = \frac{d}{1} \quad \log_{11}^1 = ? \Rightarrow \frac{\log_{\mu}^1}{\log_{\mu}^{11}} = \frac{r \log_{\mu}^r}{r \log_{\mu}^r + \log_{\mu}^1} \Rightarrow \frac{1 \cdot \frac{d}{1}}{\frac{14+d}{1}} = \left\{ \frac{d}{v} \right\} \quad (5)$$

$$\log_{\mu}^r = \frac{1}{1} \quad \log_{11}^r = ? \quad \log_{\mu}^r = \frac{1}{\log_{\mu}^r} = \frac{1}{\log_{\mu}^r} = \frac{1}{r \log_{\mu}^r} = \frac{1}{r} = \frac{1}{10} \quad (\text{دال 5})$$

$$\Rightarrow \frac{1}{\log_{\mu}^r} = \frac{1}{d} \quad \log_{11}^r = \frac{1}{\log_{11}^r} = \frac{1}{\log_{11}^r} = \frac{1}{\log_{11}^r + \log_{11}^r} = \frac{1}{1 + \frac{1}{\log_{11}^r}} = \frac{1}{1 + \frac{1}{\log_{11}^r + \log_{11}^r}}$$

$$\left. \begin{array}{l} \frac{1}{1 + \frac{1}{d}} = \frac{1}{1 + \frac{1}{14}} = \left\{ \frac{14}{15} \right\} \end{array} \right\}$$

$$(a \log_r) r^r + ar + b \log_r = \dots$$

$$\log^r(a+b) = a$$

5

(1. 12)

$$\log^r\left(1 + \frac{b}{a}\right) = 1 \Rightarrow 1 = r \times r^{b/a} \Rightarrow r^{b/a} = \frac{1}{r} \Rightarrow (\sqrt[r]{r})^{b/a} = r^{(1/r)(b/a)}$$

$$\Rightarrow (r^{b/a})^{1/r} \Rightarrow \frac{1}{r} = \sqrt[r]{\frac{1}{r}}$$

$$\frac{a+b}{a} \times \log_r = 1 \Rightarrow \left(1 + \frac{b}{a}\right) \log_r = 1$$