

(۵۰۲) $\rightarrow 1 - \frac{b}{c} = 2 \rightarrow \frac{b}{c} = -1 \rightarrow \frac{1}{c} = -b \rightarrow \frac{cb}{p} = -1$

$x^2 - 5x + p = 0 \rightarrow x^2 + \frac{r}{f}x - 1 = 0 \rightarrow (x+1)(x - \frac{1}{f}) = 0 \rightarrow x = -1, x = \frac{1}{f}$

$\rightarrow c > 0 \rightarrow c = \frac{1}{f}, b = -\frac{1}{f} \Rightarrow (-\frac{r}{f}, 0) \rightarrow 1 = \frac{r}{f}a + \frac{p}{f} \rightarrow -\frac{r}{f}a + 1 = \frac{1}{f} \rightarrow \frac{r}{f}a = \frac{r}{f} \rightarrow a = 1$

$(a+c)b = (\frac{r}{f}) - 2 = -\frac{r}{f}$

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$a = 1$

(۱۰۰) $\rightarrow 1 + cxr^{a+b} = 0 \rightarrow cxr^{a+b} = -1 \Rightarrow r^b = 3 \rightarrow b = 1$

(۰, $\frac{r}{f}$) $\rightarrow 1 + cxr^a = \frac{r}{f} \rightarrow cxr^a = -\frac{1}{f}$

$f(-1) = 1 + cxr^{a-b} = \frac{1}{9}$

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(۵۰۲) $\rightarrow c + \frac{b}{d} = 2$

($\frac{r}{f}, 0$) $\rightarrow c + \frac{b}{r^{r(a+b)}} = 0 \Rightarrow \frac{b}{r^{r(a+b)}} = 2 \rightarrow \frac{b}{r^{r(a+b)}} = 2d$

$\rightarrow 4 \cdot a + 2d \cdot b = b \rightarrow 4 \cdot a = -2d \cdot b \rightarrow \frac{a}{b} = \frac{-2d}{4} = \frac{-d}{2}$

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$|x^2 - 2| - x > 0$

	$-\sqrt{2}$	$\sqrt{2}$	
$x^2 - x - 2$	$ -x^2 - x + 2$	$ x^2 - x - 2$	
$(x-2)(x+1) > 0$	$-(x-1)(x+2) > 0$	$(x-2)(x+1) > 0$	
$\frac{-1 \quad 2}{+ \quad - \quad - \quad +}$	$\frac{-2 \quad 1}{- \quad + \quad + \quad -}$	$\frac{-1 \quad 2}{+ \quad - \quad - \quad +} \rightarrow (2, +\infty)$	
$(-\infty, -\sqrt{2}]$	$[-\sqrt{2}, 1)$	$(2, +\infty)$	

$\Rightarrow D_f = (-\infty, -\sqrt{2}) \cup (2, +\infty)$

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$g(1) = f$

$f(1) = f \rightarrow r = r^{b-a} \Rightarrow b-a = 1$

$f(-1) = 1 \rightarrow r^{b+a} = r^r \Rightarrow b+a = r$

$\left. \begin{matrix} b-a = 1 \\ b+a = r \end{matrix} \right\} \Rightarrow \begin{matrix} 2b = r+1 \Rightarrow b = \frac{r+1}{2} \\ a = 1 \end{matrix}$

$\therefore b-a = f-1 = \frac{r}{2}$

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$$y = x^2 - x = g(x)$$

$$g(1) = 0 \quad f(1) = 0 \rightarrow -2 + \left(\frac{1}{2}\right)^{A+B} = 0 \rightarrow 2 = 2 \Rightarrow A+B = -\frac{1}{2}$$

$$g(2) = 2 \quad f(2) = 2 \rightarrow -2 + \left(\frac{1}{2}\right)^{2A+B} = 2 \rightarrow 2^{-2(A+B)} = 2^2 \Rightarrow A+B = -2$$

$$\Rightarrow A = -1, B = 0 \quad f(x) = -2 + \left(\frac{1}{2}\right)^{-1(x)} = -2 + 2^x$$

$$\frac{1}{4}Ax = Ax \times \left(\frac{1}{9}\right)^{\frac{1}{4}} \rightarrow y = \left(\frac{9}{x}\right)^{\frac{1}{4}} \Rightarrow \log y = \frac{1}{4} \log \frac{9}{x}$$

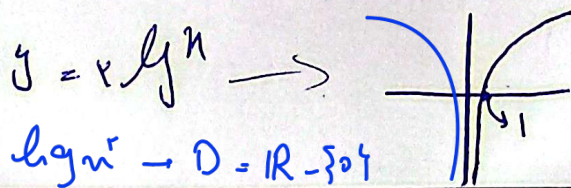
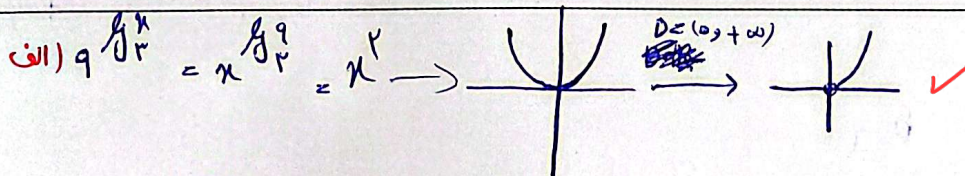
$$\Rightarrow \frac{\log 9}{\frac{1}{4}} + \frac{\log 1}{\frac{1}{4}} = \frac{1}{4} \left(\frac{2 \log 9}{\frac{1}{4}} - \frac{2 \log x}{\frac{1}{4}} \right) \Rightarrow \frac{19}{12} = \frac{1}{4} \left(\frac{18}{12} - \frac{2 \log x}{12} \right) \Rightarrow t = 24$$

$$\frac{1}{v}Ax = Ax \times \left(\frac{v}{x}\right)^{\frac{1}{v}} \rightarrow \frac{1}{v} = \left(\frac{v}{x}\right)^{\frac{1}{v}} \rightarrow v = \left(\frac{x}{v}\right)^{\frac{1}{v}} \Rightarrow \log v = \frac{1}{v} \log \frac{x}{v}$$

$$\rightarrow \frac{1}{4} = \frac{1}{v} \left(\frac{2}{14} - \frac{1}{v} \right) = \frac{1}{6v} = \frac{1}{v} \left(\frac{2}{14} - \frac{1}{v} \right) \Rightarrow t = 84 \checkmark$$

$$\frac{1}{3} = \left(\frac{96}{100}\right)^{\frac{1}{t}} \rightarrow 3 = \left(\frac{100}{96}\right)^t \rightarrow \log 3 = t \log \frac{100}{96}$$

$$\Rightarrow \frac{1}{100} = t \left(2 - \log 96 \right) \Rightarrow \frac{1}{100} = t \left(\frac{2}{100} \right) \Rightarrow t = 24 \checkmark$$



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ضابطه حساب کن!