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$$y = x^2 \Rightarrow 1/1, 1/9^m \Rightarrow f(1) = 1 \Rightarrow 3^{A+B} = 3^0 = 1 \Rightarrow A+B=0 \Rightarrow B=-A$$

$$f(3) = 9 \Rightarrow 3^{2A+B} = 3^2 \Rightarrow 2A+B=2 \xrightarrow{B=-A} 2A-A=2 \Rightarrow A=2 \Rightarrow B=-2$$

$$f(x) = 3^{2x-2} \Rightarrow \text{نقطه برعکس در } y \Rightarrow f(0) = 3^{0-2} = 3^{-2} = \left(\frac{1}{9}\right)$$

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$$r^x + 1d = r^{(x+3)} \Rightarrow (r^x)^r + 1d = (r^x)_x r^3 \xrightarrow{r^x=t} t^r - \lambda t + 1d = 0$$

$$\Delta = f \Rightarrow t \xrightarrow{r} d \Rightarrow r^x = d \Rightarrow \log_r d = x$$

$$r^x = 3 \Rightarrow \log_r 3 = x \Rightarrow \text{مجموع} = \log_r d + \log_r 3 = \log_r \frac{3d}{r}$$

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$$(\log_{r_1}^r)^r + (\log_{r_1}^r + \log_{r_1}^r) \times (\log_{r_1}^r + \log_{r_1}^r) \Rightarrow (\log_{r_1}^r)^r + (r - \log_{r_1}^r) + (r + \log_{r_1}^r)$$

$$\Rightarrow \log_{r_1}^r = b \Rightarrow b^r + (r - b^r) = r$$

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$$\log (1-x)^r + \log (1-x)^r = d \Rightarrow (1-x)^r (1-x)^r = 1^d \Rightarrow (1-x)^d = 1^d \Rightarrow x = -9$$

$$\log_{r_1}^r = \log_{r_1}^r = (r)$$

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$$\log_r (x^r + x + f) + \log_r x^{-r} = r \Rightarrow (x^r + x + f)(x^{-r}) = 1 \Rightarrow (x^{-r})^r = r^r \Rightarrow x = f$$

$$\log_{\sqrt{r}}^f = \log_{\sqrt{r}}^r = (r)$$

$$(a^r - 1) = 1 \rightarrow a = 14 \rightarrow a = \sqrt{14}$$

$$y^{\frac{r}{\sqrt{r}}} = r$$

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$$\log \frac{(y-x)}{1} = \log -(x-y)^y = \log 1_0^y \Rightarrow -(x-y)^y = 1_0^y \Rightarrow y-x=1 \Rightarrow x = -1$$

$$\log \frac{1}{\sqrt{y}} = \log \frac{y^{\frac{1}{2}}}{y^{\frac{1}{2}}} = \frac{1}{2}$$

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$$y^{\frac{1}{2}} = y^{\frac{1}{2} - y} \Rightarrow x^y - yx - y = 0 \Rightarrow x = \frac{y \pm \sqrt{y^2 + 4y}}{2} \Rightarrow \log \frac{\sqrt{y^2 + 4y}}{y} = \log \frac{\sqrt{y}}{y} = \log \frac{1}{\sqrt{y}}$$

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$$\log \frac{1}{1^{\frac{1}{2}}} = \frac{\log \frac{1}{2}}{\log \frac{1}{2}} = \frac{y \log \frac{1}{2}}{\log \frac{1}{2} + \log \frac{1}{2}} = \frac{y \frac{\Delta}{\lambda}}{y + \frac{\Delta}{\lambda}} = \frac{\frac{y \Delta}{\lambda}}{\frac{y \lambda + \Delta}{\lambda}} = \frac{y \Delta}{y \lambda + \Delta}$$

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$$\log \frac{4}{1^{\frac{1}{2}}} = \frac{\log \frac{4}{2}}{\log \frac{2}{2}} = \frac{\log \frac{2}{2} + \log \frac{2}{2}}{\log \frac{2}{2} + \log \frac{2}{2}} = \frac{\frac{1}{2} + \frac{1}{2}}{\frac{1}{2} + \frac{1}{2}} = \frac{1}{1} = 1$$

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$$x = -1 \Rightarrow (a \log y) + b (\log y) = a \Rightarrow (a+b) \log y = a \Rightarrow \left(1 + \frac{b}{a}\right) \log y = 1$$

$$\Rightarrow 1 + \frac{b}{a} = \frac{1}{\log y} \Rightarrow \frac{b}{a} = \frac{1}{\log y} - 1$$

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

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