

در این مسئله - فاصله
رسم

۲. آفرین!

سوال ۱

$$a = -\frac{1}{r} \quad \text{را } (r, r)$$

$$y = -\frac{1}{r}(x-r)^2 + r \xrightarrow{y=0} (x-r)^2 = r$$

$$\begin{aligned} x-r &= r \rightarrow x=V \\ x-r &= -r \rightarrow x=1 \end{aligned}$$

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$$\text{را } \frac{1}{r}$$

سوال ۲

$$1 - r f(r+1) \quad 1-r = -1 \propto \frac{1}{r} = \left[-\frac{1}{r}\right]$$

$$\begin{aligned} & -\frac{1}{r} \\ & -V \end{aligned}$$

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$$-\frac{1}{r} \propto -V = \left[\frac{V}{r}\right]$$

$$y = r - \sqrt{rx} \xrightarrow{\text{بجای } x} r - \sqrt{r(r+1)}$$

سوال ۳

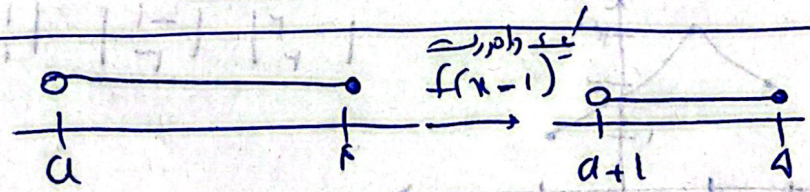
$$\xrightarrow{\text{قرینه به محور y}} -r + \sqrt{rx+r} \xrightarrow{\text{بجای } x} \sqrt{rx+r} + r$$

$$\sqrt{rx+r} + r = \frac{V}{r} \rightarrow \sqrt{rx+r} = \frac{V}{r} - r$$

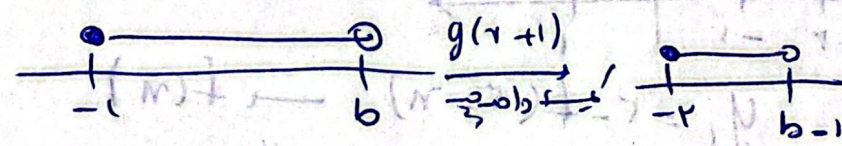
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$$rx+r = \frac{V^2}{r^2} - 2V \rightarrow rx = \frac{1}{r} - 2 \rightarrow \boxed{x = \frac{1}{r}}$$

$$\odot_f = (a, f)$$



$$\odot_g = [-1, b]$$



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$$\begin{aligned} (-r, 4) \quad a+1 &= -r \rightarrow a = -r-1 \\ b-1 &= 4 \rightarrow b = 5 \end{aligned} \quad a-b = -r-1-5 = \boxed{-r-6}$$

$$y_1 = f\left(\frac{x}{r} + 1\right) \xrightarrow[\text{سبب } \times r]{\text{طرح ها } -1} \xrightarrow[\text{طرح ها } +1]{\text{سبب } \times \frac{1}{r}}$$

سوال 4

$$Df = [-r, r]$$

$$R_f = [-1, r]$$

$$\begin{aligned} -r \times \frac{1}{r} + 1 &= -1 \\ r \times \frac{1}{r} + 1 &= r \end{aligned} \rightarrow Dg = \left[-\frac{1}{r}, r\right]$$

$$-1 \leq f(n) \leq r \rightarrow -r \leq r f(n) \leq r \rightarrow -r \leq r f(n) - r \leq 1$$

$$1 \leq |r f(n) - r| \leq r \rightarrow R_{g_r} = [1, r]$$

$$f\left(-\frac{1}{a}\right) = \frac{1}{f} \rightarrow \frac{-1}{a^r} [-1] = \frac{1}{f} \rightarrow ar = r \quad (4b)$$

$$b = 1$$

$$b - a = r$$

$$a \neq r$$

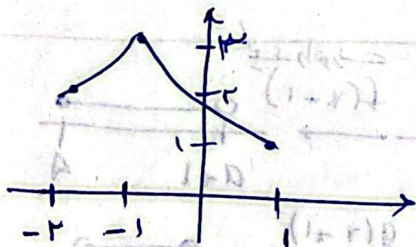
$$f(n) \rightarrow \log_r^n \rightarrow \log_r^{n+r} \rightarrow -\log_r^{n+r}$$

$$-\log_r^{n+r} + r \rightarrow -\log_r^{-n+r} + r$$

$$g(n) = -\log_r^{-n+r} + r \rightarrow g(-1) \rightarrow -\log_r^1 + r = (-1)$$

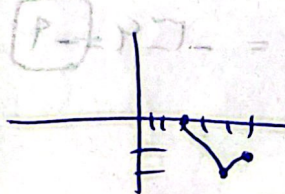
$$g(-r) \rightarrow -\log_r^r + r = (-r)$$

$$a + b = -1 - r = (-r)$$



$$| -r | \quad | -1 | \quad | 1 |$$

$$y_1 = r - f(r - n) \rightarrow f(n)$$



$$\begin{aligned} &\text{طرح ها } -1 \text{ سبب } \times r \\ &\text{عکس ها } -1 \text{ سبب } \times \frac{1}{r} \end{aligned}$$

$$f(n-1) - 1$$

$$\begin{aligned} &\text{طرح ها } +1 \\ &\text{عکس ها } -1 \end{aligned}$$

$$f(r) = \left| \frac{r+1}{r+1} \right| - \left| \frac{(r-1)+1}{r(r-1)+1} \right|$$

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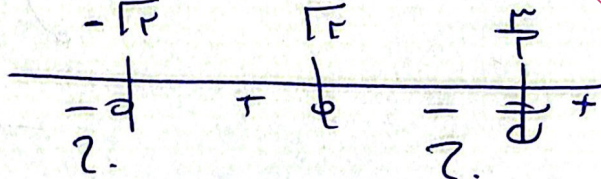
$$\left| \frac{r-1}{r-1} \right| + 1 + r < 0$$

+r

$$\frac{r-1}{r-1} + 1 + r \rightarrow \frac{r^2 - r + r - 1 + r + 1}{r-1}$$

$$\frac{r^2 - r}{r-1} \rightarrow r = 1 \rightarrow r = \pm \sqrt{r}$$

$$r = \frac{r}{r}$$



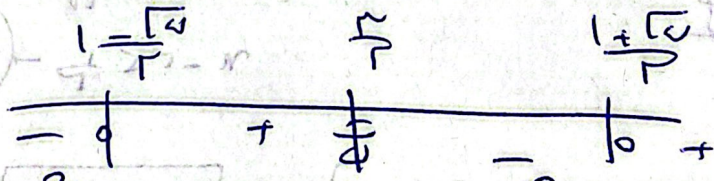
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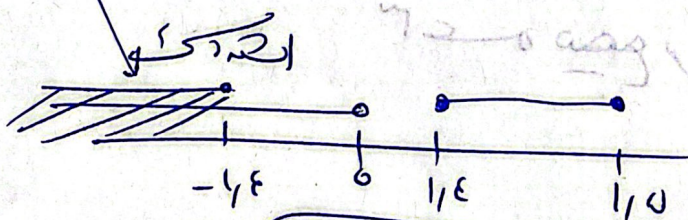
$$\frac{-r+1}{r-1} + 1 + r < 0 \rightarrow \frac{-r+1+r-1+r^2-r}{r-1} < 0$$

$$r^2 - r - 1 = 0 \rightarrow r = \frac{1 \pm \sqrt{5}}{2}$$

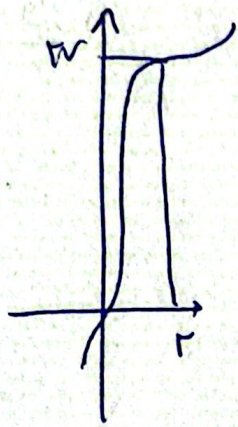
$$\frac{r^2 - r - 1}{r-1} < 0$$



اب سے کہیں بائیں



$$\boxed{r < -\sqrt{r}} \quad \text{اب سے کہیں بائیں}$$



1.1b

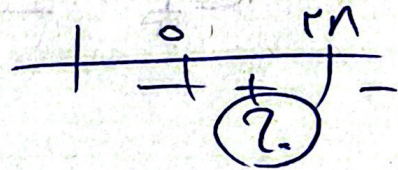
$$a(x-r)^{\frac{r}{\lambda} + r} \xrightarrow{(\infty \rightarrow 0)} a(-r)^{\frac{r}{\lambda} + r} =$$

$$\lambda a = r \rightarrow a = \frac{r}{\lambda}$$

$$f(r) = \frac{r}{\lambda} (x-r)^{\frac{r}{\lambda} + r}$$

(2)

$$\sqrt{r \wedge f(r) - f(r)^2} \rightarrow \dots f(r) (r - f(r))$$



$$0 \leq \frac{r}{\lambda} (x-r)^{\frac{r}{\lambda} + r} \leq r \wedge$$

$x > r$

I

$$(x-r)^r \leq \frac{\lambda}{r}$$

$$x - r \leq \sqrt[r]{\frac{\lambda}{r}}$$

$x \leq \frac{\lambda}{r}$

$$I \wedge II \rightarrow \text{Dg} \left[\frac{\lambda}{r} \right] \rightarrow \left[\frac{\lambda}{r} \right]$$

مع راجه

$r > r$