

فوق مرقه / - لک شده / ۸ / در یک پاره بزرگ

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②

$$f_{(1,0)} = \sqrt{1 - x^2}, \quad g_{(1,0)} = \{(-1,1), (0,0), (1,0)\} \rightarrow f_{(1,0)} = \sqrt{1 - x^2}$$

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(2) $\frac{1}{2}$

$f(x) = \gamma x - 1 \xrightarrow{\text{دایره}} [\gamma, +\infty) \rightarrow f(\gamma) = \infty \rightarrow f(\gamma) = \infty$
 $f(x) = \frac{1}{\gamma x} \xrightarrow{\text{دایره}} (-\infty, \gamma) \rightarrow f(\gamma) = \infty \rightarrow f(\gamma) = \infty$
 $f(x) = \gamma x + 1 \xrightarrow{\text{دایره}} [\gamma, +\infty) \rightarrow f(\gamma) = \infty \rightarrow f(\gamma) = \infty$

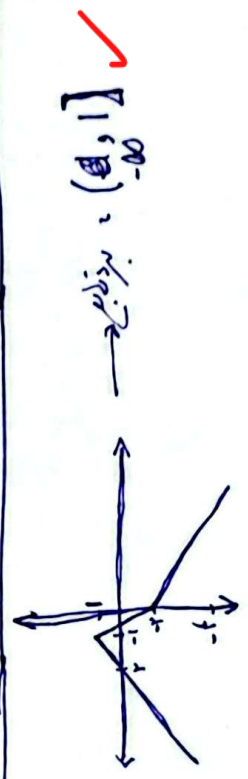
① (3/12)

$$\begin{aligned} y &= \frac{-a_v}{b} + a + v \rightarrow y' = -\frac{b}{v_a} + \frac{1}{v} + a + v, y_{max} = v', \delta \\ &\rightarrow a + v \rightarrow a + v' \rightarrow -f', \delta + v + v' = 1, \delta \\ \Rightarrow R_F &\geq 1, \delta \rightarrow D_F(-1, v') \rightarrow \sqrt{b \cdot a} = \sqrt{v'(-1)} = \sqrt{f} = \boxed{2} \end{aligned}$$

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[illegible]

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5)

$$\begin{aligned} y_2 \frac{y^r + \omega y + m}{a+1} & \rightarrow y_1 + (\Delta - y) a + m - y_1 \cdot 0 \rightarrow \Delta \geq 0 \rightarrow (\Delta - y)^r - f_m + y \geq 0 \quad (9) \\ y_1 + y_2 \frac{y^r + \omega y + m}{a+1} & \rightarrow y_1 - y_2, y_2 - f_m \geq 0 \rightarrow R_2 = R \Rightarrow \Delta \leq 0 \\ & \rightarrow y_1 - 1 \cdot y + y_2 - f_m + y \geq 0 \rightarrow y_1 - y_2, y_2 - f_m \geq 0 \rightarrow R_2 = R \Rightarrow \Delta \leq 0 \\ & \rightarrow y_1 - 1 \cdot y + y_2 - f_m + y \geq 0 \rightarrow y_1 - y_2, y_2 - f_m \geq 0 \rightarrow R_2 = R \Rightarrow \Delta \leq 0 \\ & \rightarrow y_1 - 1 \cdot y + y_2 - f_m + y \geq 0 \rightarrow y_1 - y_2, y_2 - f_m \geq 0 \rightarrow R_2 = R \Rightarrow \Delta \leq 0 \end{aligned}$$

✓ (1)

$$f(q) \begin{cases} q+r; q \geq r \rightarrow f(q) \leq \omega \rightarrow [\omega, +\infty) \\ q-r; q+r; 0 \leq q < r \rightarrow f(q) \leq \omega \rightarrow [1, +\infty) \\ |q|+r; q < 0 \rightarrow f(q) \leq r \rightarrow (r, +\infty) \end{cases} \Rightarrow [1, +\infty)$$

$f(x) = \begin{cases} x^2 + (a+r)x > 0 \rightarrow f(-r) = -1, f(0) = r \rightarrow [-1, +\infty) \\ [ra] - r a > 0 \rightarrow [-1, 0] \end{cases}$
 $\rightarrow x \in [-1, +\infty)$

$f(x) = a + 1 - \sqrt{ra+r} \rightarrow ra > -r \rightarrow a > -\frac{r}{r} \xrightarrow{D_F} [-\frac{r}{r}, +\infty) \rightarrow \sqrt{bz - \frac{r}{r}}$
 $\rightarrow a + 1 - \sqrt{ra+r} \rightarrow \sqrt{r(-\frac{r}{r}) + r} \rightarrow a + 1 \rightarrow \text{کسری و بیشترین} \rightarrow (-\infty, a+1]$
 $\rightarrow a + 1 \leq d \rightarrow [a, d]$
 $\Rightarrow ab \leq -\frac{r}{r} \times f \leq -\frac{r}{r}$

$f(x) = \sqrt{a+1} + f\sqrt{1-a} \rightarrow D_F \in [-1, 1]$
 $f(a) + f(a) = \sqrt{r+1}\sqrt{1-a} \rightarrow f(a) = \sqrt{r+1}\sqrt{1-a} - f(a)$
 $y = \frac{f(a)}{r} - \sqrt{r+1}\sqrt{1-a} + \frac{f(a)}{r}$
 $D_2[-1, 1] \rightarrow \frac{f(a)}{r} - \sqrt{r+1}\sqrt{1-a} \leq \sqrt{a+1} + r\sqrt{1-a} - \sqrt{r+1}\sqrt{1-a}$
 $\sqrt{a+1} \leq a$
 $\sqrt{1-a} \leq b$
 $a+b > 0$
 $\sqrt{0, r} \rightarrow R[0, \sqrt{r}]$