

ساره \wedge

از هم دست بردار

حسی / معنایی

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$$f(n) = \sqrt{1-n^2} \rightarrow 1-n^2 \geq 0 \rightarrow 1 \geq n^2 \rightarrow |n| \leq 1$$

$$f = \{(-1, 0), (0, 1), (1, 0)\}$$

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$$g = \{(-1, 1), (0, 2), (1, 2)\}$$

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$$r(1) - r(0) = 2$$

$$r(2) - r(1) = 5$$

$$r(2) - r(0) = 7$$

$$\left\{ \begin{array}{l} + \\ + \\ + \end{array} \right\} \rightarrow 2 + 5 + 7 = 14$$

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$$f(x) = x(x-1) \geq 0 \rightarrow [0, 1] \cup [1, +\infty)$$

$$\rightarrow (-\infty, 0] \cup [1, +\infty)$$

$$g(x) = \frac{1}{x} x^2 + 2 \geq 2 \rightarrow (-\infty, 2]$$

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$$-\frac{x^2}{x} + x + 2 > \frac{2}{x} \rightarrow -\frac{x^2}{x} + x > \frac{2}{x} > 0$$

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جمعه ۱۴۰۳

$$-x^2 + 2x + 2 > 0$$

$$\sqrt{4 - (-1) \pm 2}$$

$$\begin{array}{l} \downarrow \\ x = -1 \\ \downarrow \\ x = 2 \end{array}$$

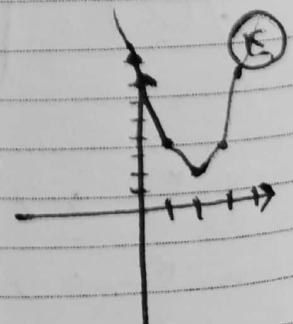
$$\begin{array}{l} a = -1 \\ b = 2 \end{array}$$

$$y = |x-1| + |x-2| + |2x-2|$$

$$x=1 \quad x=2 \quad x=1$$

$$\left[\begin{array}{c} 0 \\ 1 \end{array} \right] \left[\begin{array}{c} 1 \\ 1 \end{array} \right] \left[\begin{array}{c} 2 \\ 2 \end{array} \right] \left[\begin{array}{c} 2 \\ 2 \end{array} \right] \left[\begin{array}{c} 2 \\ 1 \end{array} \right]$$

$$y_{\min} = 2$$



شب یلدا - ترویج فرهنگ میهمانی و پیوند با خویشان

$$y_2 |n| - \tau |n+1|$$

$$n \geq 0$$

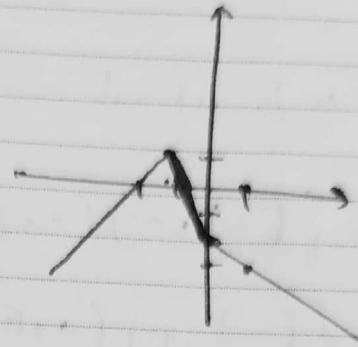
$$n \geq -1$$

$$\begin{array}{c|c|c} -1 & 0 & \\ \hline n+\tau+1 & n-\tau n-\tau & n-\tau n-\tau \\ n+\tau & -\tau n-\tau & -\tau & -n-\tau \end{array}$$

$$\begin{bmatrix} -\tau \\ \cdot \end{bmatrix}$$

$$\begin{bmatrix} 1 \\ -\tau \end{bmatrix}$$

$$R = (-\infty, 1]$$



$$y_n + y_2 = n^2 + \omega n + m$$

$$n^2 + \omega n + m - y_n - y_2 = 0 \rightarrow n^2 + \omega n - y_n + m - y_2 = 0$$

$$(\omega - y)^2 - \tau(m - y) \geq 0$$

$$y^2 - 9y + 12\omega - \tau m \geq 0$$

$$4y^2 - \tau(\tau\omega - \tau m) \leq 0 \rightarrow 4y^2 - 100 + 19m \leq 0$$

$$19m \leq 100 \rightarrow m \leq 5$$

م = {1, 2, 3, 4, 5} ← R و n = -1

$$m = \{1, 2, 3, 4, 5\}$$

$$f(n) = \begin{cases} n+2 & n \geq 1 \\ n^2 - \tau n + 2 & 0 \leq n < 1 \\ |n| + 2 & n < 0 \end{cases}$$

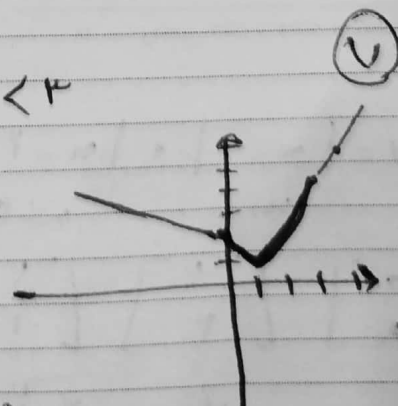
$$n \geq 1 \rightarrow y \geq \omega \quad n \geq -1 \rightarrow y \geq \tau$$

$$n \geq 1 \rightarrow y \geq 4$$

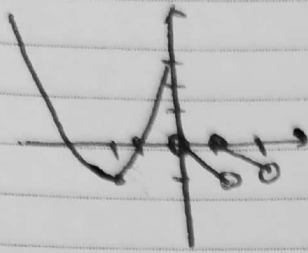
$$n \geq 1 \rightarrow y \geq 1$$

$$n \geq 0 \rightarrow y \geq 2$$

$$R = [1, +\infty)$$



$$f(n) = \begin{cases} n^2 + kn + k & n \leq 0 \rightarrow \min \begin{cases} -1 \\ -1 \end{cases} \\ \lfloor kn \rfloor - kn & n > 0 \rightarrow (1, 0) \end{cases} \quad (8)$$



$$R_2 [-1, +\infty)$$

(9)

$$y = a + 1 - \sqrt{kn + k} \rightarrow D_y = \{kn + k\} \neq 0$$

$$y = a + 1 = 0 \rightarrow a = -k$$

$$kn > -k \rightarrow n > -\frac{k}{k}$$

$$b = -\frac{k}{k}$$

$$f \times \left(-\frac{k}{k}\right) = -4$$

$$f(n) = 4\sqrt{n+1} + k\sqrt{1-n}$$

$$f(n) + g(n) = k\sqrt{2+2\sqrt{1-n^2}}$$

$$D_f = \{n \leq 1\}$$

$$f(-1) = 4\sqrt{2}$$

$$f(0) = 4 \quad f(1) = k\sqrt{2}$$

$$f(\sqrt{1}) + g(-1) = k\sqrt{2}$$

$$f(0) + g(0) = 4$$

$$g(-1) = -\sqrt{2}$$

$$g(0) = 0$$

$$g(1) + f(1) = k\sqrt{2} \rightarrow g(1) = \sqrt{2}$$

$$\frac{f(n) - 2g(n)}{4} \Rightarrow n = 1 \rightarrow 0$$

$$n = 0 \rightarrow 1 \rightarrow [0, \sqrt{2}]$$

$$n = -1 \rightarrow \sqrt{2}$$