

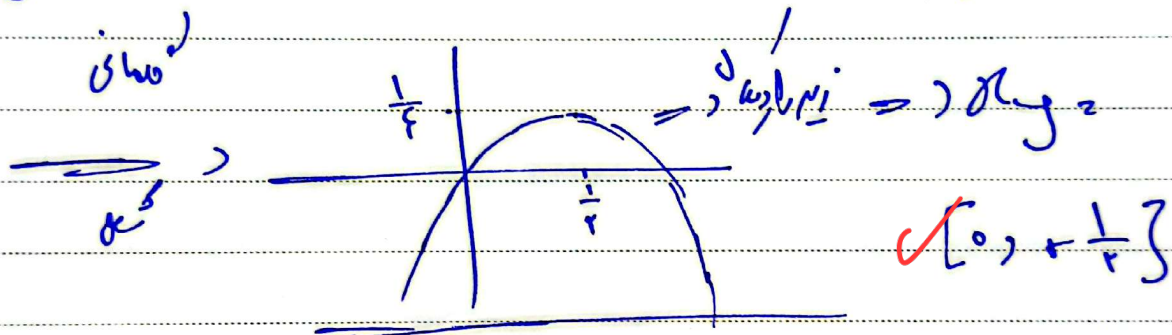
$\frac{A_1}{A_2} = \frac{A_1}{A_2}$

$$f(x \circ 1) + f(1 \circ x) = (x + f(x)) - \frac{x^2}{2} = f(x) + f(x) =$$

$$r_0 f(r) \equiv -1, \quad (f(r) + f(r) \cdot r = 1, \quad f(r) \in \mathbb{R})$$

$$g(f(x_{n+1}) + f(x+r) - f(x)) \xrightarrow{f \text{ is concave}}$$

$$y = \sqrt{f(x) - x^2} \Rightarrow \sqrt{x - x^2} \quad \leftarrow f(x) = x \quad \checkmark$$



$$f(x) = \frac{n^r - \xi x}{n \cdot r} = \frac{n(n-1)(\cancel{n-2})}{\cancel{n \cdot r}} \cdot n(n-2)$$

$$a^r - \lambda a \neq 0 \Rightarrow a^r - \lambda a - 0 \neq 0$$

$$\Rightarrow (n - \underbrace{f}_{-r})(n + \underbrace{f}_{-r}) \Rightarrow n + \xi_{r-r} \quad (r)$$

$$x^T - 2x = 0, x \in [-1, \infty) \cdot \{ \wedge \} = 1 \cdot (-1)$$

$$x \neq y, \quad \checkmark$$

$$\Rightarrow f\left(\frac{a+b}{x}\right), f\left(\frac{x-y}{-x}\right) = f(-1) \quad -r \text{ desub}$$

$$f(-1) = 1 \quad \checkmark$$

$$y = \sqrt[3]{(x^3 + ax^2 + bx - 1)} \Rightarrow y = \sqrt[3]{(x-1)^3} \quad -r$$

$$\Rightarrow a = -4, b = 1 \quad \textcircled{1} \quad L: y = x - 1 \Rightarrow x \in [-4, 1] \quad \textcircled{y}$$

$$\Rightarrow -1 \leq x - 1 \leq 1 \Rightarrow x \in [0, 2] \quad \checkmark$$

$$\left(\frac{x+1}{-x+1}\right)^{\frac{1}{2}} \Rightarrow \frac{x+1}{-x+1} \geq 0 \Rightarrow \frac{-}{-} \frac{+}{+} \quad -r$$

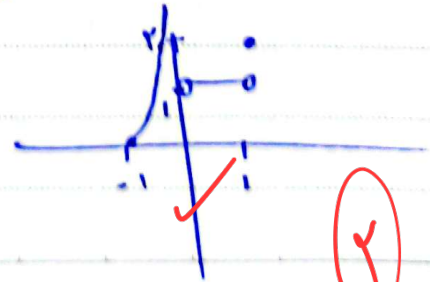
$$\frac{ax^2 - 1}{x + b} \quad \begin{matrix} x \rightarrow 0 \rightarrow \frac{1}{b} \\ x \rightarrow +\infty \rightarrow a \end{matrix} \quad \begin{matrix} x \neq 1 \\ 0 \end{matrix} \quad \textcircled{y}$$

$$\Rightarrow \mathcal{D}_f \left[\frac{-1}{b}, a \right] = [-1, 1] \quad \checkmark \Rightarrow a = 1, b = 1$$

$$\Rightarrow [0, 2] \quad \checkmark$$

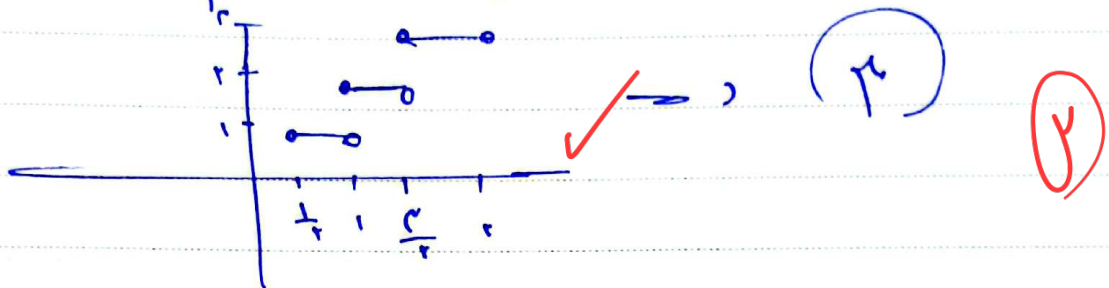
$$\textcircled{2} \quad x \geq -1 \Rightarrow [x] \leq -1 \Rightarrow \text{but } x = -2 \quad -r$$

$$\Rightarrow \frac{-1}{x} - 1 \quad \begin{matrix} x \geq -1 \Rightarrow \cdot \\ x \leq 0^- \Rightarrow \infty \end{matrix}$$



$$[n] \circ [n+1/r] \Rightarrow \frac{1}{r} \cdot n \in \mathbb{I} \Rightarrow [rx]_{r1} \quad -4$$

$$1 \leq n \leq r \Rightarrow [rx]_{r1} \quad \frac{r}{r} (n \in \mathbb{I}) \Rightarrow [rx]_{r1}$$



$$\left| \frac{n+1}{n+2} \right|_{r1} \Rightarrow \frac{n+1}{n+2} \Rightarrow n+1 \in \mathbb{I} \Rightarrow n+1 \in \mathbb{I} \quad -5$$

$$\Rightarrow rx_2 - \varepsilon = rx_2 - r \Rightarrow b_2 - r, a_2$$

$$\Rightarrow a - b_2 \in \mathbb{I} \quad \checkmark$$

$$|x-r| + |y-1|_{r1}$$

$$x_2 r \quad y_2 1$$

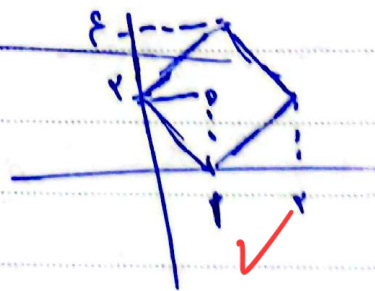
$$x_2 r \quad y_2 1$$

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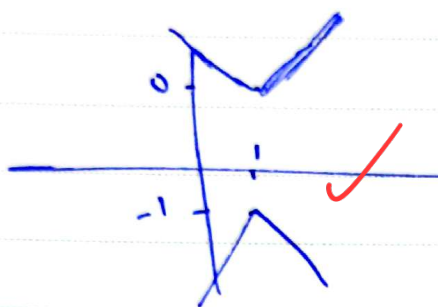
$$|x-1| + |y-r|$$

$$x_2 1 \quad y_2 r$$



$$\rightarrow |x-1| - |y-1| = -1 \xrightarrow{x=1} |y-1| - |1-1| = 1$$

$y=2 \quad x=1$



højeste, laveste = $|y-1|$

$$f(x) = \begin{cases} (x+a)x+b, & ax+b \geq 0 \\ (x-a)x+b, & ax+b < 0 \end{cases}$$

positivt -

$$\Rightarrow x-a > 0 \Rightarrow a < x, \quad x+a > 0 \Rightarrow a > -x$$

$$\Rightarrow -x < a < x \Rightarrow |a| < x$$