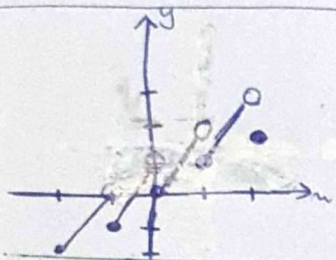


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لاریب عالمی



$$\frac{-Y_n + Y_{n-1}}{-1 \leq Y_n \leq 0} \rightarrow Y_n + 1 \rightarrow (Y_n + 1) \pmod{2}$$

$$\frac{0 \leq Y_n \leq 1}{1 \leq Y_n \leq 2} \rightarrow Y_n - 1 \rightarrow (Y_n - 1) \pmod{2}$$

$$\frac{n \geq 2}{n \geq 2} \rightarrow Y_n \rightarrow (Y_n) \pmod{2}$$

$$J(n) = x^2 + (n+1)x + n = (1+n)x^2 + (n+1)x + 1$$

$$f(x) = 1 + (-1)(2) = \boxed{-1}$$

$$g(n) \Rightarrow \{(x, -1), (x, p+1), (p+1, -1), (-1, p+1)\}$$

$$\varepsilon \rightarrow (-10), (p+1) \rightarrow p+1, -10 \rightarrow p, -11$$

$$\text{Per} \Rightarrow (-9) \rightarrow (-1) \rightarrow \text{pek} \rightarrow -1, -11 \rightarrow k \rightarrow -1$$

$$\boxed{K \leq 10} \rightarrow m+n+p+K \leq 10 + 8 - 4 + 10 = \boxed{-V}$$

c) $y = \sqrt{\frac{u-r}{u^2 - ru^2 - 1}}$ $\rightarrow$ 
 $u^2 - ru^2 - 1 \geq 0 \xrightarrow{u^2 \geq 1} t - rt - 1 \geq 0$
 $(t-1)(t+r) \geq 0$

$$D = \begin{bmatrix} -1 & 0 & 1 \end{bmatrix} U(\varepsilon_{10}) \quad \text{for } t=2 \text{ to } t=3$$

c) $f(n) = \frac{2n^2 + 1}{\varepsilon - 1[-n]} \rightarrow \varepsilon - 1[-n] \neq 0$
 $\varepsilon \neq 1[n]$

$$[-n] \neq \emptyset \rightarrow n \in (-\infty, -1]$$

$$\frac{n^2(n+1) - (n+1)}{(n+1)(n+1)} = \frac{(n+1)(n-1)(n+1)}{(n+1)(n+1)} = \boxed{n-1} = n$$

$$\xrightarrow{n=1} \frac{a+x}{b+1} = p, \quad \xrightarrow{n=-1} \frac{y-a}{b-1} = 1$$

$$\begin{cases} a+r = r b+r \\ r-a = b-1 \end{cases} \rightarrow r = b+r \rightarrow b = \frac{1}{r} \rightarrow a = r/\phi$$

$$f(x) = \sqrt{x(x-1)}$$

$$n(n-1)(n+1) \geq 0$$

$$-\frac{1}{2} \leq x \leq \frac{1}{2} \rightarrow x \in (-1, 0) \cup (1, +\infty) \text{ (ii)}$$

$$D_f = (1, +\infty)$$

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5) $f(x) = \frac{\sqrt{|x-1|} - x}{|x-1|}$

$$|u-r| - u^r \geq 0 \xrightarrow{u \geq r} u - r - u^r \geq 0$$

$$\begin{cases} x < y \rightarrow -x \geq 0 \\ \rightarrow +x \leq 0 \end{cases}$$

$I \cap \Pi$
 $\uparrow$
 $D_f = [-\gamma, 1]$

$\|n - \bar{r} - 1\| - k \neq 0 \quad \leftarrow \text{مستبعد}$
 $\|n - \bar{r} - 1\| \neq k \rightarrow \|n - \bar{r}\| = t$
 $\|t - 1\| \neq k \rightarrow t \geq 0 \rightarrow t - 1 \neq k \quad (k \geq 1)$
 $t - 1 \neq -k \quad (k \leq 1)$

$$D_{f-g} \Rightarrow \{x - x_0\} \geq 0 \rightarrow x \geq \frac{x_0}{\varepsilon} \textcircled{I}$$

$$b - \epsilon_n \geq 0 \rightarrow \frac{b}{\epsilon} \geq 0 \text{ (II)} \rightarrow \textcircled{\text{I}} \cup \textcircled{\text{II}} \rightarrow n \in \left[\frac{a}{\epsilon}, \frac{b}{\epsilon} \right]$$

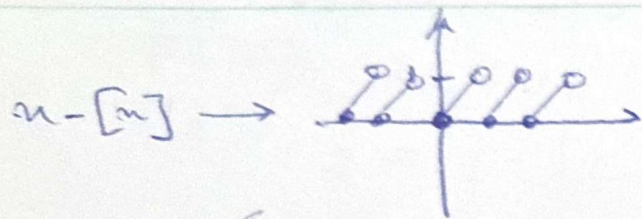
$$\frac{Pa}{\varepsilon} = \frac{b}{\varepsilon} = 1 \rightarrow a = \varepsilon, \quad b = \varepsilon$$

$$f_{\text{d-g}}(m) = \sqrt{a-m} - \sqrt{b-m} - k - r$$

$$f - g(1) \rightarrow \sqrt{b-c} - \sqrt{b-c-k-r} \xrightarrow{a \geq \frac{r}{c}, b \geq \frac{r}{c}}$$

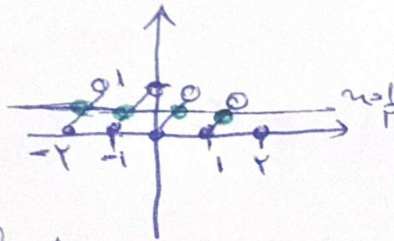
$$Y(f-g)(1) = -k-Y \rightarrow -k-Y = k \rightarrow k = -1$$

$$ra - \frac{b}{r} - k = c a \frac{\sum}{r} - \frac{c}{r} - (-1) = c - r + 1 \quad (\text{C})$$



$y = (-1)^n x(n - [n]) \neq \frac{1}{T} \rightarrow$

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$D(x \wedge y) = Df \cap Dg$

$Dg \rightarrow m \in \mathbb{R}_{\geq 0} \rightarrow m \geq -1$

$Dg = [-1, +\infty)$

$Dg \rightarrow m - n \geq 0 \rightarrow m \geq n \rightarrow$

$Df = (-\infty, m] \rightarrow [-1, m] \cap [-1, +\infty)$

$m \leq 1$ $\rightarrow f(c) - g(c) = 2\sqrt{c}$

$g(c) \geq \sqrt{c} \rightarrow f(c) \leq 2\sqrt{c} + 2\sqrt{c} = 4\sqrt{c}$

$f(c) = \sqrt{c} + \sqrt{c} = 2\sqrt{c}$

$n \geq 1 + \sqrt{c} - 1$

$m + n \leq 1 + \sqrt{c} - 1 = \boxed{c + 1 + \sqrt{c}}$