

لغنا دتکلیف بده واضع ته عکس تغییر: (سارا امینی)

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$$f(x) = (x+1)^2 + (x-1)^2 + mx^2 + nx + m$$

$$\rightarrow x^2 + 2x + 1 + x^2 - 2x + 1 + mx^2 + nx + m \rightarrow (1+m)x^2 + (-2+2n)x + 2+m \rightarrow f(x) = -3x$$

میزد $\rightarrow$ ضریب x $\rightarrow$ چون ضریب است

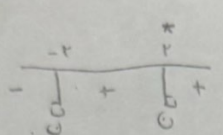
$$m = -1 \rightarrow n = 2$$

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$$g(x) = \{ (f, m) (n, p+1) (p+2, -1) (-9, p+k) \} \rightarrow -1 + 2 - 1 + 1 = -1$$

$$\rightarrow (4, -1) (2, -1) (-9, -1) (-9, -1 + k) \rightarrow k = 1$$

الف) $\sqrt{\frac{x-2}{x^2-2x-1}}$



$$D_f = (-2, +\infty) - \{2\}$$

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الف) $x^2 = t \rightarrow t^2 - 2t - 1$
 $(t-1)(t+1)$
 $x^2 = 2 \rightarrow x = \pm\sqrt{2}$
 $g(x) = \pm 2$

$$D_f = \mathbb{R} - (-3, -2]$$

ب) $\frac{x^2+1}{x-2[-x]} \rightarrow x-2[-x] \neq 0 \rightarrow x \neq 2[-x] \rightarrow x \neq -2 \rightarrow x \neq (-2, -1)$

الف) $f(x) = \sqrt{x(x^2-1)}$
 $\frac{-1}{-1+1-1} \rightarrow [-1, 0] \cup [1, +\infty)$
 $\sqrt{|x|+x} \rightarrow |x|+x > 0 \rightarrow x > 0 \rightarrow 2x > 0 \Rightarrow x > 0$
 $x < 0 \rightarrow -x+x = 0 \rightarrow x < 0$

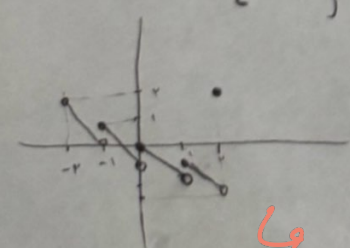
ب) $f(x) = \frac{\sqrt{x^2-1}-x^2}{|x|-1} \rightarrow |x^2-1|-x^2 \geq 0$
 $|x|-1 \neq 0 \rightarrow |x| \neq 1 \rightarrow x \neq -1, 1$
 $D_f = [-2, 1] - \{-1, 1\}$

$$\frac{-2}{-1+1-1} = 2 \rightarrow [2, 3]$$

$$||x-1|-1|-k \rightarrow ||x-1|-1|-k=0 \rightarrow |x-1|-1=k \rightarrow |x-1|-1=-k$$

$|x-1|=k+1 \rightarrow x-1=k+1 \rightarrow x=k+2$
 $|x-1|=-k+1 \rightarrow x-1=-k+1 \rightarrow x=-k+2$
 $k=-1 \rightarrow x=\{0, 2, 2\}$
 $k=1 \rightarrow x=\{0, 2, 2\}$

$|x-1|=-k+1$
 $x-1=-k+1 \rightarrow x=-k+2$
 $x-1=k-1 \rightarrow x=k$

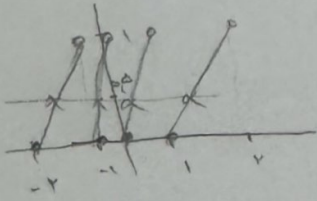


$[-2, -1)$	$\rightarrow$ $y=2$	$(-1, 0)$	$y=2$
$[-1, 0)$	$(-1, 1)$	$(0, -1)$	$y=1$
$[0, 1)$	$(0, 0)$	$(1, -2)$	$y=0$
$[1, 2)$	$(1, -1)$	$(2, -3)$	$y=-1$

تغییر (+) است

$$y = (-1)^n (x - [x]) = \frac{1}{4} \rightarrow (x - [x]) = \frac{1}{4} \rightarrow x - [x] = \frac{1}{4}$$

$$x = \left\{ -1.25, -0.75, -0.25, 0.25, 0.75, 1.25 \right\}$$



$$\rightarrow (-f+b)x + y + ba = ax$$

$$L \rightarrow ba = -\mu$$

$$(-k+b)x = -\frac{k}{b}x$$

$$b'' - \varepsilon b + \mu = 0$$

$$a = -\frac{16}{1} = (-16)$$

$$a = \frac{-r}{r} = (-1)$$

$$-3-1 = -2$$

$$1 - (-1) = 2$$

$$n \neq \pm 1$$

$$f(n) = n + 1$$

$$x=1 \rightarrow \frac{-a+r}{b-1} = 1 \rightarrow a+b=r$$

$$g(-1) = -1 + 2 = 1$$

$$b+c=0, a+r=r, w$$

$$\hookrightarrow y \leq \varepsilon b \rightarrow \left(\frac{1}{\varepsilon} y \leq b \right)$$

$$a = x - \frac{1}{x} = x, (x)$$

$$\sqrt{f_{X-1}a + K-1} \rightarrow \xi_{1-1}a \rightarrow n_3 \frac{ca}{s}$$

$$\sqrt{b - \sum x} + 14K$$

نمونه $[\frac{a}{s}, \frac{b}{s}]$

$$\hookrightarrow b - \varepsilon n \leq x \leq b + \frac{\varepsilon}{2}$$

$$ra - \frac{b}{r} - k = \psi\left(\frac{r}{w}\right) - \frac{\Sigma R}{r} \quad -k \leq 2 - 2k - k = 2 - 3k$$

$[1, k]$

$$\frac{a}{1} = 1 \rightarrow a = \frac{1}{1} \quad \checkmark \quad a = \frac{1}{1}$$

$$\frac{dV}{dt} = K \rightarrow V = 2K \quad \text{at } z = 0$$

$$rk - r - r^2 k = k \rightarrow k = 1$$

$$Dg(x) \Rightarrow x_n + x_j \rightarrow x_j - x \rightarrow x_{j-1}$$

$$D_{f \circ g} = [-1, v] \leadsto Df = (-\alpha, v]$$

$$m - x \geq 1 \rightarrow x \leq m \rightarrow m = \checkmark$$

$$g(r) = \sqrt{r} = r \cdot \sqrt{r}$$

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

$$n = 4\sqrt{r} + r\sqrt{r} - r = \sqrt{r} - r \rightarrow m+n = v + \sqrt{r} - r = \omega + \sqrt{r}$$