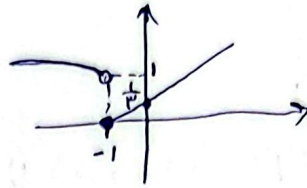


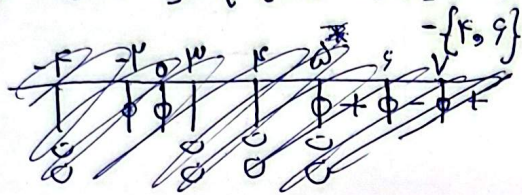
$$x = y^3 - 1 \Rightarrow y = \sqrt[3]{x+1} \quad x > -1$$

$$x = -y^2 \Rightarrow y = \sqrt{-x} \quad x < 0$$



تابع است. ✓

$$D = (-\infty, -1] \cup \{-1\} \cup [0, 3) \cup [7, +\infty)$$



	-4	-2	0	2	4	6	8
x	-	-	-	+	+	+	+
$f(x)$	-	+	+	+	-	+	+
$f(x-1)$	-	-	+	+	+	+	-
$g(x)$	-	+	+	-	-	-	+

$$x^3 - 4x = 0 \Rightarrow (x-2)(x+2)(x) = 0 \quad D = \mathbb{R} - \{-2, 0, 2\}$$

(الف)

$$x^2 - 3x + 2 = 0 \quad \Delta = 9 - 4 = 5 > 0$$

(ب)

$$x^3 - 4x = 0 \quad \begin{array}{c} -4 \quad 0 \quad 4 \\ - \quad + \quad - \quad + \end{array}$$

$$D = (-\infty, 0) \cup (0, +\infty)$$

$$x-2=0 \quad x=2$$

$$x^2 - 4x + 1 = 0 \xrightarrow{x=t} t^2 - 4t + 1 = 0 \quad (t-2)(t+2) = 0 \Rightarrow t=2 \Rightarrow x=2$$

$$\begin{array}{c} -2 \quad 2 \\ - \quad + \quad + \end{array}$$

$$D = (-2, 2) \cup (2, +\infty)$$

(الف)

$$x - 2[-x] = 0 \Rightarrow 2[-x] = x \Rightarrow [-x] = \frac{x}{2} \Rightarrow -1 < -x < 1 \Rightarrow -1 < x < 1$$

$$D = [-1, 1]$$

(ب)

$$x(x^2 - 1) \geq 0 \Rightarrow x = \pm 1, 0$$

$$\begin{array}{c} -1 \quad 0 \quad 1 \\ - \quad + \quad - \quad + \end{array}$$

$$D = [-1, 0] \cup [0, +\infty)$$

$$|x| + x > 0 \Rightarrow |x| > -x$$



$$\Rightarrow D = [0, +\infty) \quad (\text{الف})$$

$$|x-2| - x^2 \geq 0 \Rightarrow |x-2| \geq x^2$$

(ب)

$$|x| - 1 = 0 \Rightarrow x = \pm 1$$

$$D = [-1, 1] - \{-1\}$$

$$\begin{array}{c|c} \mu^* & \mu \\ \hline + & 0 \\ 0 & + \\ & + \end{array}$$

$$D = [Y, +\infty)$$

الف

5

$$D = [\mu, +\infty) \cup \{1\}$$

$$|m-4| - 1 - k = 0$$

$$k > 0$$

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$$V_{a-P} \leq 1$$

$\rightarrow n$

$\mu_{12} = 1$

~~1 kg X~~

Amn

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[illegible]

$$\text{doz} = p/k = k+1 \begin{cases} n > p \rightarrow m = k+1 \\ n < p \rightarrow m = k+1 \end{cases}$$

$$n-1=0 \rightarrow n=1$$

$$\frac{n+1}{n-1} = 0 \rightarrow n = -1$$

$$n = 13$$

$$n^4 - 9n + 9 = (n-3)^4$$

$$n^l + m + y = 0 \rightarrow n = -1, -y$$

اِسْمُ، كَلِمَ

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$$\log \frac{1}{n^{\frac{1}{\mu}}} > 0$$

$$\log \frac{n}{p} < 0 \Rightarrow n < 1$$

$$n+1 > 0 \rightarrow n > -1$$

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

$$n+1 \neq 1 \Rightarrow n \neq 0$$

9

$$\Delta_1 \langle \mu_n^p - 1 \rangle \leq \mu \quad -\mu \leq \mu_n^p \leq \mu \quad 0_1 \langle x^p \rangle \leq \frac{\mu}{2}$$

$$n^4 \leq \frac{K}{\epsilon}$$

$$x \leq \frac{\mu}{\sqrt{3}}$$

$$n \geq \frac{2}{\epsilon^2}$$

$$D = \left[-\frac{p}{\sqrt{p}}, \frac{p}{\sqrt{p}}\right]$$

1.