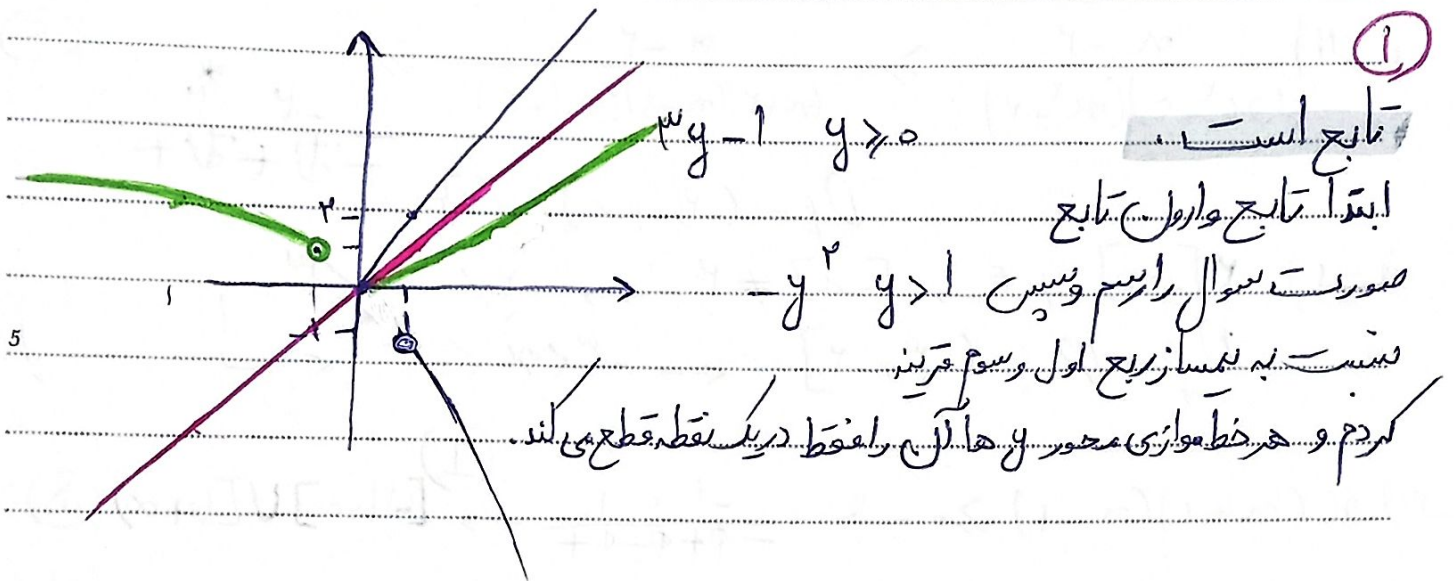


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10 $\frac{x^3 - 8}{x^3 - 8} \geq 0 \rightarrow \frac{-4}{-} + \frac{-2}{-} - \frac{0}{+} + \frac{2}{+} + \frac{4}{+}$
 $D_g = (-4, -2] \cup [0, 2) \cup [4, +\infty)$

15 $\frac{2x^3 - 3x^2 + 2}{x^3 - 8x} \geq 0 \rightarrow \frac{-2}{-} + \frac{0}{+} + \frac{2}{+}$
 $D_f = (-2, 0) \cup (2, +\infty)$

الف) $\frac{x-2}{(x^2-4)(x^2+2)} \geq 0 \rightarrow \frac{x-2}{(x+2)(x-2)(x^2+2)} \geq 0$ (5)

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

ب) $2[-x] \neq 4 \rightarrow [-x] \neq 2 \rightarrow 2x - x < 3$

5 $D_f = \mathbb{R} - [-3, -2] \leftarrow -3 \leq x \leq -2 \leftarrow$

الف) $x(x+1)(x-1) \geq 0 \rightarrow \frac{-1 \ 0 \ 1}{-\phi + \phi - \phi +}$ (I) (6)

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

$|x| + x > 0 \rightarrow x > 0$ (I) (I) $\cap$ (I) $[1, +\infty)$

10

ب) $|x-2| - x^2 \geq 0 \rightarrow |x-2| \geq x^2$

المكان ينبراست $[-2, 1]$ $\leftarrow$

$|x| \neq 1 \rightarrow x \neq \underline{1} \underline{-1} \rightarrow D_f = [-2, 1) - \{-1\}$



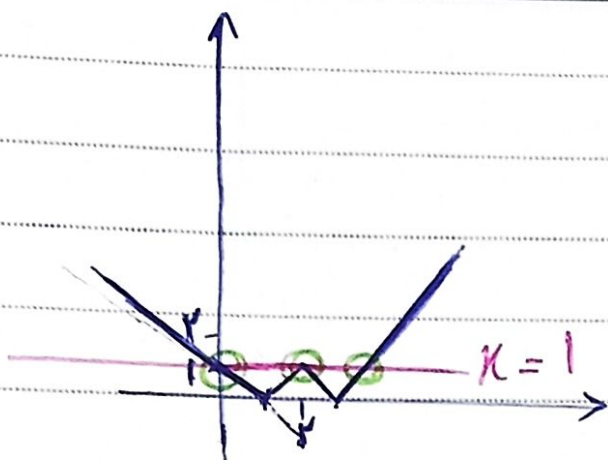
15 الف) $(x-2)[x-2] \geq 0$ (7)

$\frac{-2 \ 2}{+ \phi \ 0 \ -}$
 $D_f = \mathbb{R}$

ب) $\frac{-1 \ 3 \ 4}{-\phi - \phi \ 0 \ +}$ $D_f = [3, +\infty) \cup \{1\}$

20

(V)



$$K=1$$

$$x^2 + 2x + 1 \neq 0 \rightarrow x \neq -1, -1$$

(A)

$$x + 1 \neq 0 \rightarrow x \neq -1$$

$$x - 1 \neq 0 \rightarrow x \neq 1 \quad D_f = \mathbb{R} - \{-1, -1, 1\} \quad \boxed{x=1}$$

$$x^2 - 4x + 4 = 0 \rightarrow (x - 2)^2 = 0 \rightarrow \boxed{x=2} \rightarrow (\underline{\underline{2}}, \underline{\underline{1}})$$

~~$$x + 1 > 0 \rightarrow x > -1, x > 0, x \neq 1$$~~

(9)

$$D_f = (0, +\infty) - \{1\}$$

15

$$-x^2 + 2x - 1 \leq 0 \rightarrow -x^2 + 2x - 1 \leq 0$$

(10)

$$\rightarrow x^2 \leq \frac{1}{x} \rightarrow x \in \left[\frac{-1}{\sqrt{2}}, \frac{1}{\sqrt{2}} \right]$$

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