

نام و نام خانوادگی پاسخنانه تشریحی تکلیف شماره ۲... کلاس ... دانش آموز ...

$$f(x) \Rightarrow f(x) = x^2 + 1 + 2x + 9x^2 - 4x + 1 + mnx^2 + nx + mn = (1+m)x^2 + (n-4)x + mn + 2$$

$$\begin{aligned} \rightarrow 1+m=0 &\Rightarrow m=-1 \\ \rightarrow n-4=0 &\Rightarrow n=4 \end{aligned}$$

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

$$p+1=0 \Rightarrow p=-1 \rightarrow p+1-9 \Rightarrow (-1+1)-9 \Rightarrow p+1-1=-1+K \Rightarrow K=1$$

$$m+n+p+K=-1+4-1+1=1 \quad \boxed{-1}$$

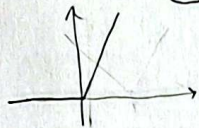
$$\text{الف) } \frac{x-2}{x^2-2x^2-1} > 0 \Rightarrow \frac{x-2}{(x^2-4)(x+2)} > 0 \Rightarrow \frac{x-2}{(x+2)(x+2)} > 0 \Rightarrow (x+2)(x+2) > 0 \Rightarrow x+2 > 0 \Rightarrow x > -2 \Rightarrow D_f: (-2, +\infty)$$

$$\text{ب) } x-2[-x] \neq 0 \Rightarrow x \neq 2[-x] \Rightarrow x \neq -2x \Rightarrow x \neq 0 \Rightarrow D_f: \mathbb{R} - \{0\}$$

$$\text{الف) } x(x^2-1) > 0$$

$$|x|+x > 0$$

$$|x|+x \begin{cases} x > 0 \\ x < 0 \end{cases}$$

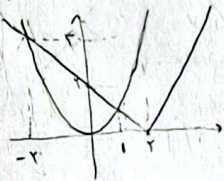


$$\Rightarrow [-1, 0] \cup [1, +\infty) \Rightarrow D_f: [1, +\infty)$$

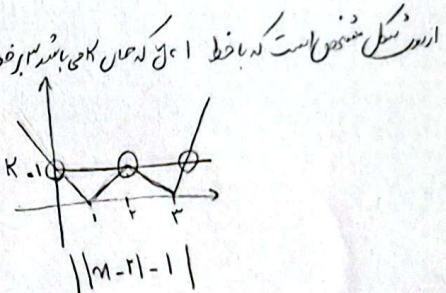
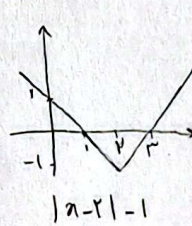
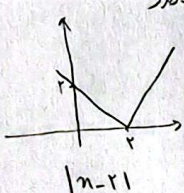
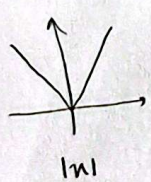
$$\text{ب) } |x-2|-x^2 > 0 \Rightarrow |x-2| > x^2$$

$$|x| \neq 1 \Rightarrow x \neq \pm 1$$

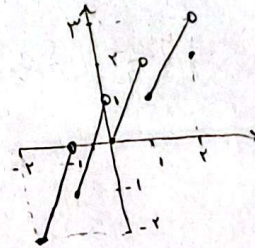
$$D_f: [-2, 1) - \{-1\}$$



$$||x-2|-1| - K = 0 \Rightarrow ||x-2|-1| = K \quad K=1$$



$$\begin{aligned} -2 < x < -1 &\Rightarrow [x] = -2 \Rightarrow 2x - [x] = 2x + 2 \\ -1 < x < 0 &\Rightarrow [x] = -1 \Rightarrow 2x - [x] = 2x + 1 \\ 0 < x < 1 &\Rightarrow [x] = 0 \Rightarrow 2x - [x] = 2x \\ 1 < x < 2 &\Rightarrow [x] = 1 \Rightarrow 2x - [x] = 2x - 1 \\ x = 2 &\Rightarrow [x] = 2 \Rightarrow 2x - [x] = 2x - 2 = 0 \end{aligned}$$



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