

$$n^2 + 2n + 1 + 9n^2 - 7n + 1 + mn^2 + nn + m$$

$$\Rightarrow nn^2 + \dots \Rightarrow n, 2 \quad m = -10 \quad mn^2 + 2 = -20 + 21 - 2n = f(n)$$

$$\rightarrow p+15-10 \Rightarrow p=-11 \quad p+k_1-1 \Rightarrow k_1=10$$

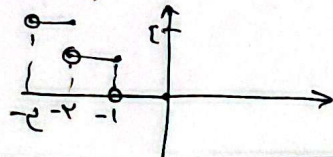
$$m+n+k+p = 10-10+2-11 = -7$$

$$\frac{n-2}{n^2-2n^2-1} \Rightarrow n^2=2 \Rightarrow n=\pm 2 \quad \frac{-2}{-1} + \frac{2}{1} +$$

$$n^2=-2 \quad \text{و} \quad n^2=2$$

$$n \in (-2, +\infty) - \{2\}$$

$$2[-n] \neq 2$$



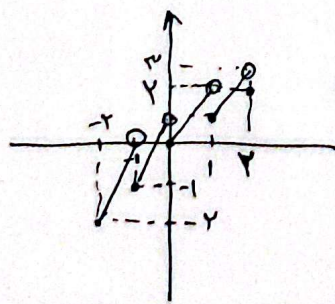
$$n \in (-2, -1]$$

$$|n| + n > 0 \Rightarrow n < 0 \Rightarrow -n + n > 0 \quad \text{و} \quad n > 0 \Rightarrow n + n > 0$$

$$n(n^2-1) \geq 0 \Rightarrow n^3 - n \geq 0 \quad \frac{-1 \quad 0 \quad 1}{- \quad + \quad - \quad +} \Rightarrow n \geq 1 \Rightarrow D_f = [1, +\infty)$$

$$|n| \neq 1 \Rightarrow n \neq \pm 1, \quad |n-2| - n^2 \geq 0 \quad \begin{cases} n \geq 2 \Rightarrow -n^2 + n - 2 \leq 0 \\ n < 2 \Rightarrow -n^2 - n + 2 \leq 0 \end{cases}$$

$$\begin{cases} -n^2 + n - 2 \leq 0 \\ -n^2 - n + 2 \leq 0 \end{cases} \Rightarrow \begin{cases} n \leq -1 \\ n \leq 1 \end{cases} \Rightarrow D_f = [-1, 1]$$



$$f(n) = 2n - [n] \quad D_f = [-2, 2]$$

$$f(n) = n$$

$$\Rightarrow \frac{n^2 - \xi n + \zeta}{n + a} + b \cdot n = (n - b)(n + a) = n^2 - \xi n + \zeta = (n - 1)(n - c)$$

$$\begin{cases} a = -1, b = \xi \Rightarrow a - b = -\xi \\ b = 1, a = -\zeta \Rightarrow a - b = -\xi \end{cases}$$

$$b = 1, a = -\zeta \Rightarrow a - b = -\xi$$

$$\frac{(n-1)(n+1)(n+2)}{n^2-1} = f(n) \Rightarrow f(n) = n+2 \Rightarrow f(-1) = 1 \quad f(1) = 3$$

$$\Rightarrow \frac{-a+\zeta}{b-1} = 1 \Rightarrow a+b\xi \quad , \quad \frac{a+\zeta}{b+1} = 3 \Rightarrow \zeta b - a = -1$$

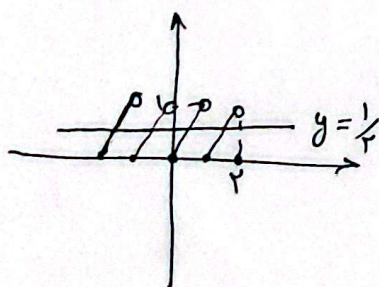
$$\Rightarrow \xi b = \zeta \Rightarrow b = \frac{1}{\xi} \quad f(n) = n + \zeta \neq n + 2 \Rightarrow \zeta = 2 \quad (b = \zeta, \xi = 1)$$

$$D_g \Rightarrow n \geq -1 \Rightarrow D_f \Rightarrow n \leq r \Rightarrow \text{N/A}$$

$$D_f \Rightarrow m - n \geq 0 \Rightarrow n \leq m \Rightarrow m = 5$$

$$f - g(\xi) = 2\sqrt{\xi} \Rightarrow \sqrt{5-n} + n - \sqrt{5+n} \Rightarrow \sqrt{5-\xi} + n - \sqrt{5+\xi} = 2\sqrt{\xi}$$

$$\Rightarrow n = \sqrt{5-\xi} \quad m+n = \sqrt{5-\xi} + 0$$



$$\Rightarrow \text{نصف محور} \quad \text{محور}$$