

010

نام و نام خانوادگی پریمی پاسنامه تشریحی تکلیف شماره ۲ کلاس روز دوشنبه A

$$f(x) = x^4 + 1 + 2x + 9x^2 + -7x + m x^2 + n x + m x$$

$$= 10x^2 - 5x + 2 + m x^2 + n x + m x \Rightarrow m = -10, n = +5$$

$$\Rightarrow p + 1 = -10 \Rightarrow p = -11$$

$$-11 + 5 = -6 \Rightarrow k = 10$$

$$-10 + 5 - 11 + 10 = -6 \Rightarrow V$$

$$\frac{x-2}{x^2-2x^2-1} \geq 0 \Rightarrow \frac{x-2}{(x^2-2)(x^2+2)} \geq 0$$

$$\frac{x-2}{(x-2)(x+2)(x^2+2)} \geq 0 \Rightarrow$$

$$\frac{-2}{-2+2+2} = \frac{-2}{2}$$

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

$$F = \{2\}$$

$$2 \neq 2[-x]$$

$$2 \neq [-x]$$

$$2 \neq -x \neq 2$$

$$-2 \neq x \neq -2 \Rightarrow D_f = \mathbb{R} - (-2, 2]$$

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

$$x(x-1)(x+1) \geq 0$$

$$I: x > 0$$

$$II: x < 0$$

$$I \cap II: |x| \leq 1$$

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

$$x \geq 2: -x^2 + x - 2 \geq 0$$

همیشه منفی است $\Delta < 0$

$$x \leq 2: -x^2 - x + 2 \geq 0$$

$$\Rightarrow x^2 + x - 2 \leq 0$$

$$(x+2)(x-1) \leq 0 \Rightarrow \frac{-2}{+1-1} = 2$$

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

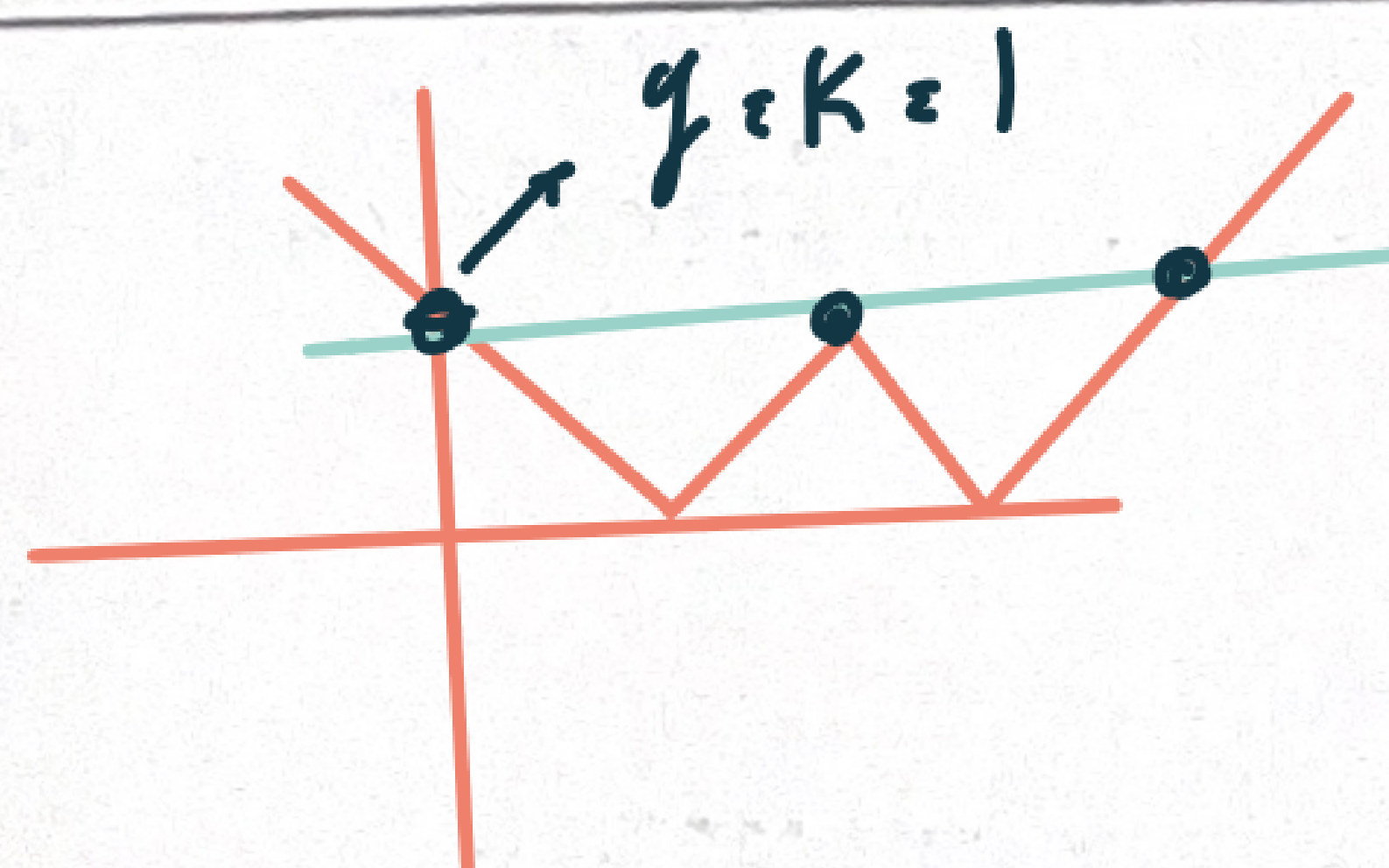
110

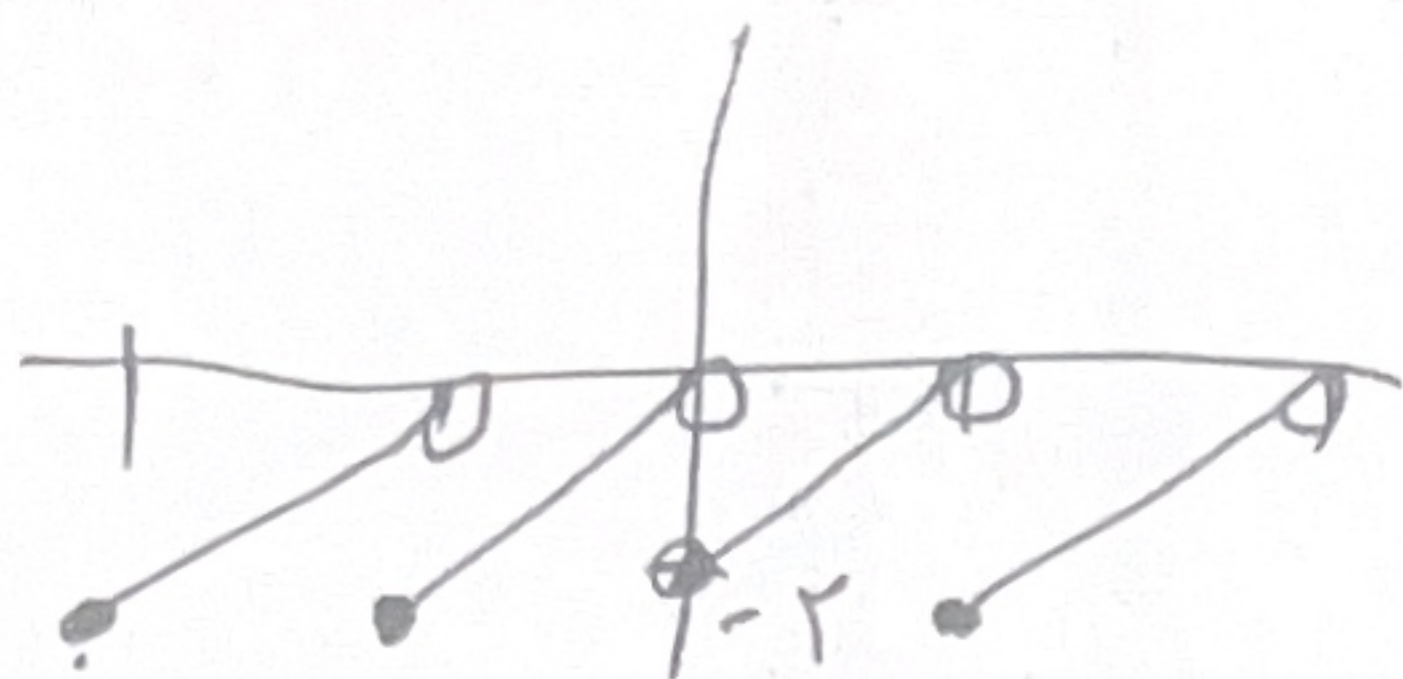
$$|x| - 1 \neq 0 \Rightarrow x \neq \pm 1$$

$$\Rightarrow D_f = (-\infty, -2] \cup (1, 2)$$

$$1 - x - k, x - 1 - k, 2 - x - k, x - 2 - k$$

$$\Rightarrow x \neq 1, 2, 3 \Rightarrow k = 0$$





2

$$\frac{(n-3)(n-1)}{n+a} + b = n \Rightarrow \frac{(n-3)(n-1)}{n+a} = n-b$$

3

$$\Rightarrow (n-3)(n-1) = (n-b)(n+a) \begin{cases} a=-3, b=1 \Rightarrow a-b=-4 \\ a=-1, b=3 \Rightarrow -1-b=-4 \end{cases}$$

$$n=0 \Rightarrow \frac{-3}{-1} = 0+c \Rightarrow c=3 \checkmark$$

1

$$n=1 \Rightarrow \frac{a+3}{1+b} = 3 \Rightarrow a+3 = 3+b \Rightarrow a-b=0 \quad \left. \begin{array}{l} a=3, b=3 \\ a=-1, b=-1 \end{array} \right\}$$

$$n=-1 \Rightarrow \frac{3-a}{b-1} = 1 \Rightarrow 3-a = b-1 \Rightarrow a+b=4 \quad \left. \begin{array}{l} a=3, b=1 \\ a=-1, b=-1 \end{array} \right\}$$

$$b+c=0$$

$$f(1) = \sqrt{4-3a} + k-1, g(1) = \sqrt{b-1} + 3k$$

$$3-2+1=2$$

$$2 \times \sqrt{4-3a} + 2k-2 - \sqrt{b-1} - 3k = k$$

$$2\sqrt{4-3a} - \sqrt{b-1} = 2(k+1) \quad |$$

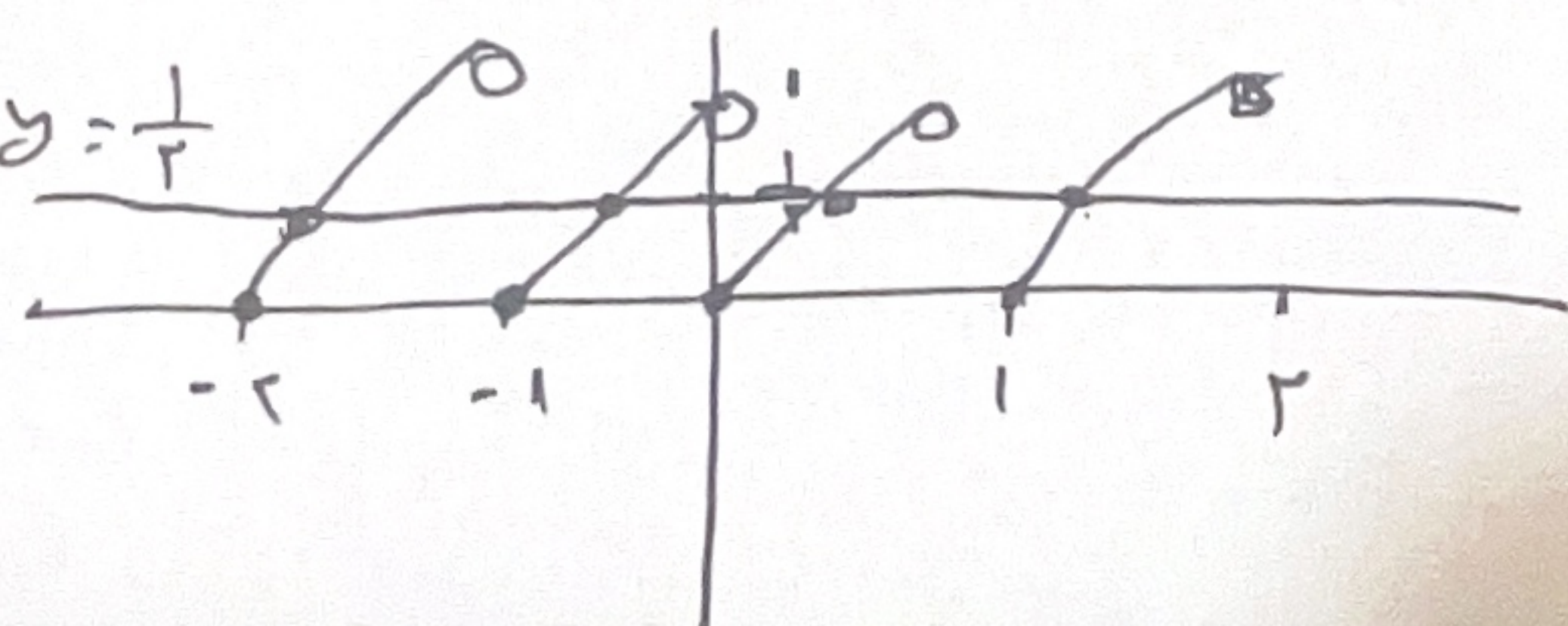
$$\begin{cases} 4-3a \geq 0 \Rightarrow a \leq \frac{4}{3} \\ b-1 \geq 0 \Rightarrow b \geq 1 \\ \frac{4}{3} \geq a \Rightarrow a = \frac{4}{3} \\ b \geq 1 \Rightarrow b = 1 \end{cases} \Rightarrow a = \frac{4}{3}, b = 1$$

$$m-x \geq 0 \Rightarrow m \geq x$$

$$p_g: n \geq -1 \quad |$$

$$\frac{\sqrt{4-3}}{2} + n - \frac{\sqrt{1}}{1} = 2\sqrt{2}$$

$$n = 1\sqrt{2}-2 \Rightarrow m+n = 1\sqrt{2}+0$$



3 جواب دارد

4