

مضامین

$$\{(1,0), (0,1), (1,1), (0,0)\}$$

$$A \times B = \{(1,0), (1,1), (0,0), (0,1)\}$$

$$B \times B = \{(0,0), (0,1), (1,0), (1,1)\}$$

$$A \times B = B^2 = \{(1,0), (1,1), (0,0), (0,1)\}$$

$$1) m^2 - m - 2 = 0 \Rightarrow m = -1 \text{ یا } m = +2$$

$$2) m^2 - m - 2 = 0 \Rightarrow m = -1 \text{ یا } m = +2$$

$$n = K \Rightarrow 2K - 2 = 4 - 2K$$

$$\Rightarrow 2K = 6 \Rightarrow K = 3$$

$$n = 1 \Rightarrow a + b = 0$$

$$n = 2 \Rightarrow 2a + b = 1$$

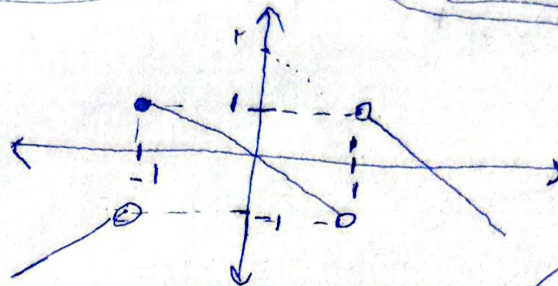
$$\Rightarrow a = 1$$

$$b = -1$$

$$\Rightarrow ab = -1$$

$$D_f = \mathbb{R} - \{1\}$$

$$R_f = (-\infty, 1]$$



$$1) y_1 = \frac{-1 - \sqrt{1 - 4x}}{2}$$

$$y_2 = \frac{-1 + \sqrt{1 - 4x}}{2}$$

$$\Rightarrow y_1 = y_2 \Rightarrow y_1 = y_2$$

$$2) n^2 - 2n + 1 + 4y^2 - 12n + 9 = (n-1)^2 + (2y-3)^2 = 0 \Rightarrow \begin{cases} n=1 \\ y=1.5 \end{cases}$$

$$n = 0 \text{ rad} \Rightarrow 0 \times \sin y = y \times 0$$

$$\Rightarrow y = 0$$

نشان

$$1) \frac{x}{y} + \frac{y}{x} + 2 = 4 \Rightarrow \frac{x+y}{xy} = 2 \Rightarrow x^2 - 2xy + y^2 = 0$$

$$\Rightarrow (x-y)^2 = 0 \Rightarrow x = y$$

$$1) \frac{1}{x} + \frac{1}{y} = 2 \Rightarrow \frac{x+y}{xy} = 2 \Rightarrow x^2 - 2xy + y^2 = 0$$

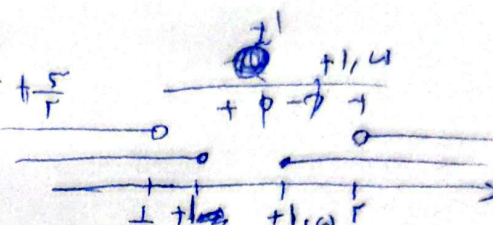
$$\Rightarrow (x-y)^2 = 0 \Rightarrow x = y$$

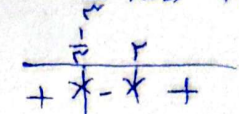
$$2) n_1, n_2 \in [0, \sqrt{2}] \Rightarrow \sqrt{n} \leq \sqrt{2} \Rightarrow n \leq 2$$

$$\Rightarrow [0, 2]$$

الف) $\frac{\sqrt{(n-1)(n-4)}}{\sqrt{(n-2)(n-8)}} \rightarrow \frac{1}{+} \frac{1}{p-4} \frac{1}{+}$  $\rightarrow D_f = [-\infty, 4] \cup (8, +\infty)$

ب) $\frac{\sqrt{(n-1)(n-4)}}{(n-2)(n-8)} \rightarrow \frac{1}{+} \frac{1}{p-4} \frac{1}{+} \frac{1}{p-2} \frac{1}{+}$ $\Rightarrow [-\infty, 4] \cup (8, +\infty)$

الف) $\rightarrow P=4 \rightarrow +2s+2 \rightarrow x \frac{1}{s} \rightarrow +1s + \frac{5}{s}$  $\rightarrow D_f = (-\infty, \frac{1}{4}) \cup (8, +\infty)$

ب) $\rightarrow P=4 \rightarrow +1s+4 \rightarrow x \frac{1}{s} \rightarrow \frac{1}{s} + 4$ 

ج) $\rightarrow \frac{1}{s} \frac{1}{s-1} \frac{1}{s-2} \frac{1}{s-3} \rightarrow \frac{1}{+} \frac{1}{p-1} \frac{1}{p-2} \frac{1}{p-3} \rightarrow (-\infty, \frac{1}{4}) \cup [1, 2] \cup (3, +\infty)$