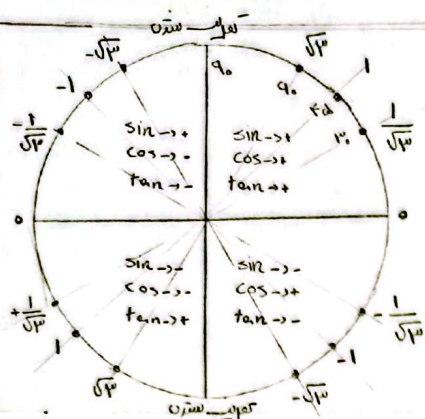




$$\tan = \frac{\sin}{\cos}$$

11

2

3

$\therefore \rightarrow$

$$\begin{array}{ll} x^r + \varepsilon x & x \geq 1 \rightarrow 1^r + \varepsilon = \Delta \\ yx + \alpha + y & x \leq 1 \rightarrow y + 1 + y = \Delta \quad \checkmark \end{array}$$

۵۶۰ - لعل قق

$$f(1) = 0$$

$$\begin{aligned} \text{f. } 96 &= -x & \rightarrow \frac{1x+11}{-x} \geq 2 & \vee & \rightarrow 11-b = a-9 \Rightarrow 11+9 = a+b \rightarrow \underline{20 = a+b} \\ & & \rightarrow -x \leq x \leq -10 & & \end{aligned}$$

الم 1 $y = \frac{1}{x^3 - 5x^2}$ $\lim_{x \rightarrow 0} \neq 0 \Rightarrow x^3 - 5x^2 \neq 0$ $x^2(x-5) \neq 0$ $x \neq 0, x \neq 5$

$$D_f = \mathbb{R} - \{0, e\}$$

$$\therefore Y = \frac{1}{r_{oc}^Y + k_{oc}^Y + r_{oc} + k} = \frac{1}{r_{oc}^Y (x+Y) + Y(x+Y)} = \frac{1}{(x+Y)(r_{oc}^Y + Y)}$$

$$L_2 \textcircled{-2} \quad L_2 \Delta X \rightarrow \textcircled{+} \text{value}$$

$$D_f = IR - \{-r\}$$

← رَسَائِدُ مِطَايَا سَبْعَةِ

Home work



الـ ١

$$x^2 - 1 \geq 0 \rightarrow x^2 \geq 1 \quad x \geq 1 \quad x - 1 \geq 0 \quad x \geq 1 \quad \cap \Rightarrow x \geq 1 \quad D_f = [1, +\infty)$$

6

الـ ٢

$$4 - 3x \geq 0 \rightarrow 4 \geq 3x \rightarrow x \leq \frac{4}{3} \quad \sqrt{4x - 3} \neq 0 \rightarrow 4x - 3 \neq 0 \quad 4x \neq 3 \quad x \neq \frac{3}{4}$$

$$4x - 3 \geq 0 \rightarrow 4x \geq 3 \rightarrow x \geq \frac{3}{4} \Rightarrow \frac{3}{4} \leq x \leq \frac{4}{3} \Rightarrow D_f = \left[\frac{3}{4}, \frac{4}{3}\right]$$

المسألة ١
المسألة ٢

$$11 - a = 0 \quad a = 11 \quad b - 4 = 0 \quad b = 4 \quad \frac{b}{a} = \frac{1}{11}$$

$$L \rightarrow x = \frac{a}{4} \quad L \rightarrow x = \frac{b}{4}$$

$$\rightarrow I \text{ مستوية } \rightarrow -a + 4x \geq 0 \quad 4x \geq a \Rightarrow x \geq \frac{a}{4}$$

$$\rightarrow II \text{ مستوية } \rightarrow b - 3x \geq 0 \quad \frac{b}{3} \geq x$$

$$\Rightarrow \frac{1}{4} \leq \frac{a}{4} = \frac{b}{a} \quad \frac{b}{a} = 0,1$$

7

$$I \rightarrow \frac{(x-3)(x+2)}{(x^2-4)(x^2-9)} = \frac{1}{(x-2)(x+3)} \Rightarrow D_f = (-\infty, -3) \cup (2, +\infty)$$

$$D_f = (-\infty, -3) \cup (2, 4) \cup (4, +\infty)$$

$$\frac{-3}{+} \frac{-2}{-} \frac{2}{-} \frac{4}{+}$$

$$x^3 - 4x^2 - 4x + 4 \quad x^2 - 9 + 4$$

$$\frac{-x^3 - 4x^2 + 4x + 4}{-4x^2 - 4x + 4}$$

$$\Rightarrow \frac{(x-1)(x^2-x-4)}{(x+1)(x^2-x-4)} \Rightarrow \frac{(x-1)}{(x+1)}$$

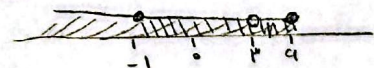
$$L \rightarrow (x+1)(x-2) \quad D_f = (-\infty, -1) \cup (-1, 1) \cup (1, 2) \cup (2, +\infty)$$

8

$$I, \frac{x+1}{|x-3|} \rightarrow x+1 \geq 0 \rightarrow x \geq -1$$

$$|x-3| \rightarrow +\infty$$

$$III, \frac{4-x}{x^2+x+4} \rightarrow 4-x \geq 0 \rightarrow x \leq 4$$



$$II, |x-3| \neq 0 \quad x \neq 3$$

$$\Rightarrow D_f = [-1, 4] - \{3\}$$

$$I, [x] - 2 \geq 0 \quad [x] \geq 2 \quad [x] \in [2, +\infty)$$

$$2 - [x] \geq 0 \quad [x] \leq 2 \quad [x] \in (-\infty, 2]$$

الـ ٣

الـ ١

$$x[x] - 4 \geq 0 \quad x[x] \geq 4 \rightarrow [x] \geq 2 \quad [x] \in [2, +\infty)$$

الـ ٢

$$x[x] - 4 \geq 0 \quad [x] \geq 2 \quad [x] \in [2, +\infty)$$

10

9