

نیم سانس - کثیف لکھیں

(الف) $3m^3 - 10m^2 + 3(m-18) \div \frac{m-1}{3m^2 - 19m + 15}$

$\downarrow$

$(3m-3)(3m-5)$

$$D_f = \mathbb{R} - \left\{ \frac{3}{5}, \frac{5}{3}, 1 \right\}$$

(ب) $3m^3 - m^2 - 18m - 4 \div \frac{m+1}{3m^2 + 4m - 4}$

$\downarrow$

$(3m-4)(3m+2)$

$$D_f = \mathbb{R} - \left\{ -1, 2, \frac{4}{3} \right\}$$

(الف) $\sqrt{3-2m} \geq 0$

$3 \geq 2m$

$m \leq \frac{3}{2}$

~~not~~

$$m - \sqrt{3-2m} \neq 0$$

$$m^2 \neq 3-2m$$

$$m(m+2) \neq 3$$

$m \neq +1, -3$

حصہ دیکھو
جواب دے

$$D_f = (-\infty, \frac{3}{2}] - \{1, 2\}$$

(ب) $3m-2 \geq 0$

$3m \geq 2$

$m \geq \frac{2}{3}$

$$m^2 \neq 3m-2$$

$$m(m-3) \neq -2$$

$$m \neq 1, 2$$

$$D_f = [\frac{2}{3}, +\infty) - \{1, 2\}$$

(3)

الف) $\sqrt{\cos m} \neq 1$
 $\cos m \neq \frac{1}{\sqrt{}}$

$$D_f = \mathbb{R} - \left\{ \sqrt{K^2 + \frac{12}{\sqrt{}}}, \sqrt{K^2 + \frac{\omega K}{\sqrt{}}} \right\}$$

ب) $\sqrt{\sin m} \neq -1$
 $\sin m \neq \frac{-1}{\sqrt{}}$

$$D_f = \mathbb{R} - \left\{ \sqrt{K^2 + \frac{12}{\sqrt{}}}, \sqrt{K^2 + \frac{11K}{\sqrt{}}} \right\}$$

ج) $\cos \neq 0$, $\sin \neq 0$
 $\cot \neq 1$

$$D_f = \mathbb{R} - \left\{ K^2 + \frac{12}{\sqrt{}}, \frac{K^2}{\sqrt{}} \right\}$$

د) $\sqrt{\sin^2 m} \neq \sqrt{3}$
 $\sin \neq \pm \frac{\sqrt{3}}{\sqrt{}}$

$$D_f = \mathbb{R} - \left\{ K^2 + \frac{12}{\sqrt{}}, K^2 - \frac{12}{\sqrt{}} \right\}$$

هـ) $(m-2)(m-3) \geq 0$

$$\begin{array}{c} 2 \quad 3 \\ | \quad + \quad - \quad + \end{array}$$

(4)

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

و) $(m-\omega)(m-1) < 0$

$$\begin{array}{c} 1 \quad \omega \\ | \quad - \quad + \quad - \quad + \end{array}$$

$$D_f = (1, \omega)$$

ز) $(m+1)(m+\omega) \geq 0$

$$\begin{array}{c} -\omega \quad -1 \\ | \quad + \quad - \quad + \end{array}$$

$$D_f = (-\infty, \omega] \cup [-1, +\infty)$$

$$2) (n-4)(n-1) \neq 0$$

$$\begin{array}{c} 1 \quad 4 \\ | \quad - \quad + \\ 4 \quad - \quad 4 \end{array}$$

$$D_f = [1, 4]$$

$$\text{الف) } \frac{(n-1)(n-2)}{n-3} < 0$$

$$\begin{array}{c} 1 \quad 2 \quad 3 \\ | \quad - \quad + \quad - \quad + \\ - \quad 1 \quad 2 \quad - \quad 3 \end{array}$$

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$$D_f = (-\infty, 1) \cup (2, 3)$$

$$\text{ب) } \frac{(n-1)(n+1)}{(n-1)(n-3)} > 0$$

$$\begin{array}{c} * \\ | \quad - \quad 1 \quad 3 \\ 1 \quad - \quad 1 \quad - \quad 3 \end{array}$$

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$$D_f = (-\infty, -1] \cup (3, +\infty)$$

$$\text{ج) } \frac{(n-3)(n-1)}{n^3-1} \geq 0$$

$$\begin{array}{c} * \\ | \quad 1 \quad 3 \\ - \quad 1 \quad - \quad 3 \end{array}$$

15

$$D_f = [3, +\infty)$$

$$\text{د) } \begin{array}{l} n^2 - 1 \neq 0 \\ n \neq \pm 1 \end{array}$$

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

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الف) $m^2 - 3m > 0$
 $m(m-3) > 0$

$$\begin{array}{c} 0 \quad 3 \\ | \quad | \\ - \quad - \quad + \end{array}$$

(u)

$$D_f = (-\infty, 0) \cup (3, +\infty)$$

ب) $14 - m^2 > 0$

$$14 > m^2 \Rightarrow -\sqrt{14} < m < \sqrt{14}$$

$$|m| < \sqrt{14}$$

~~$m \neq \pm 3$~~

$$m \neq \pm 3$$

$$\begin{cases} m > 3 \\ m < -3 \end{cases}$$

$$D_f = (-\sqrt{14}, \sqrt{14}) - \{\pm 3\}$$

ج) $10 - m > 0$
 $m < 10$
 $m \neq 9$

$$\frac{(m-3)(m-7)}{m-9} > 0$$

$$\begin{array}{c} 3 \quad 7 \\ | \quad | \\ - \quad - \quad + \end{array}$$

$$D_f = (3, 10) - \{9\}$$

د) $\sqrt{(m-4)(m-11)} \geq 0$

$$\begin{array}{c} 4 \quad 11 \\ | \quad | \\ - \quad - \quad + \end{array}$$

$$m^2 - 15m + 44 > 0$$

$$m > 0$$

$$m^2 > m^2$$

$$m \neq 1$$

$$D_f = [0, 4] \cup [11, +\infty) - \{1\}$$

$$-4 < m < 4$$

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$$\frac{n(n-1)}{n(n+1)}$$

$$\begin{array}{c|ccc} & -1 & 0 & 1 \\ \hline & 1 & 0 & -1 \end{array}$$

(1)

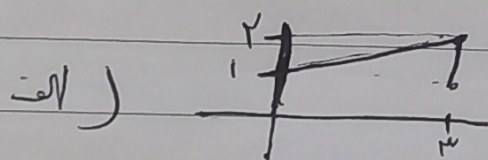
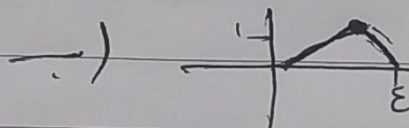
$$\begin{array}{c|ccc} & -1 & 0 & 1 \\ \hline n^2 - n & 1 & 0 & -1 \\ \hline n^2 + n & 1 & 0 & 1 \\ \hline D_f & 1 & 0 & 0 \end{array}$$

$$\begin{array}{c|ccc} & -1 & 1 & 1 \\ \hline & 1 & 0 & -1 \end{array}$$

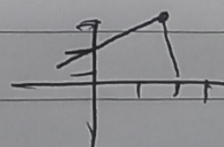
$$D_f = (-1, 1] \cup (-1, 1]$$

(9)

10



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