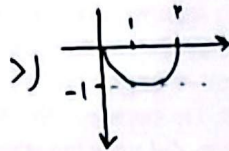
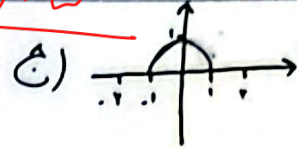
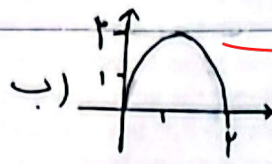
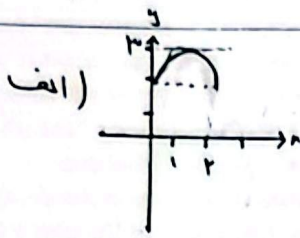


نام و نام خانوادگی پاسبانمه تشه جی تکلیف شماره (۱۰۰) کلاس دهم



Q ✓

$$\frac{(n-2)(n-3)}{2 \cdot 1} \cdot \frac{1}{n} > 0$$

$$\begin{array}{ccccc} & \gamma & & \gamma & \\ + & \oplus & - & \oplus & + \end{array}$$

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

$$b) (\hat{n}^1 - 1)(\hat{n}^a - a) < 0$$

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

$(1, \omega)$

$$j(j+1)(j+a) \geq 0$$

$$\begin{array}{ccccc} & -\Delta & & -1 & \\ \hline + & \phi & - & \phi & + \end{array}$$

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

$$> 1 (\hat{n}^1 - 1) (\hat{n}^4 - 4) \ll 0$$

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

[1,4]

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

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

$$(-\infty, -1) \cup (1, \infty)$$

Q ✓

$$b) \frac{(\hat{n}-1)(\hat{n}+1)}{(n-1)(n-2)} > 0$$

$$\begin{array}{r} -1 \quad -^* \quad 2 \\ +\phi - \phi - \phi + \end{array}$$

$$(-\infty, -1] \cup (0, +\infty)$$

$$\sqrt{\frac{(n-1)(n^2+n)}{n(n-1)(n+1)}} \rightarrow \text{اتحاد ميل (مقبول)}$$

$$\rightarrow \text{اتحاد مزدوج}$$

$$\begin{array}{ccccccc} & - & & \circ & & 1^* & \\ \hline + & \text{C} & - & \text{C} & + & \text{C} & + \end{array}$$

$$D_f = (-\infty, -1) \cup (0, 1) \cup (1, +\infty)$$

ج) $y = \sqrt{\frac{(n-4)(n+4)}{(n-1)(n-4)}}$ → اتحاد مزدوج
→ اتحاد جمع مشترک *

$$\begin{array}{c} -K \quad 1 \quad K^* \\ \hline + \quad 0 \quad - \quad + \quad + \end{array}$$

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

الف) $2 - x \geq 0$ $x \leq 2$

$$r - \sqrt{r-n} \geq 0 \quad \sqrt{r-n} \leq r \quad r-n \leq 14$$

$$n \geq -14 \quad -14 \leq n \leq 2$$

$$D_f = [-14, 2]$$

ج) $n-2 \geq 0$ $n \geq 2$

$$w - \sqrt{n - \gamma} \geq 0 \quad \sqrt{n - \gamma} \leq w \quad n - \gamma \leq 9$$

$$n \ll 1 \quad \gamma, \kappa n \ll 1$$

$$D_f = [r, 11]$$

الف) $4 - x^2 > 0$ $2(2 - x^2) > 0$ $2 - x^2 > 0$ $x^2 < 2$ $x < \sqrt{2}$ $-\sqrt{2} < x < \sqrt{2}$ $D_f = [\sqrt{2}, +\infty)$ <u>1, 5</u> $[-\sqrt{2}, \sqrt{2}]$	ب) $3 x - 9 > 0$ $3 x > 9$ $x > 3$ $3 < x < -3$ $D_f = (-\infty, -3] \cup [3, +\infty)$ ٤
الف) $y = \sqrt[3]{\frac{ x +1}{ x -3}}$ $\rightarrow$ $\frac{3}{2}$ مرفوع $x - 3 \neq 0$ $x \neq 3$ $x \neq -3, 3$ $D_f = \mathbb{R} - \{-3, 3\}$ $\odot \checkmark$	ب) $y = \sqrt[3]{\frac{\sqrt{x}+1}{\sqrt{x}-3}}$ $\rightarrow$ $\frac{3}{2}$ مرفوع $x > 0$ $\sqrt{x} - 3 \neq 0$ $\sqrt{x} \neq 3$ $x \neq 9$ $D_f = \mathbb{W} - \{9\}$ ٧
الف) $2\cos x - 1 \neq 0$ $2\cos x \neq 1$ $\cos x \neq \frac{1}{2}$ $x \neq 2k\pi \pm \frac{\pi}{3}$ $D_f = \mathbb{R} - \{2k\pi + \frac{\pi}{3}, 2k\pi - \frac{\pi}{3}\}$	ب) $2\sin x + 1 \neq 0$ $2\sin x \neq -1$ $\sin x \neq -\frac{1}{2}$ $x \neq \frac{7\pi}{6} + 2k\pi, \frac{11\pi}{6} + 2k\pi$ $D_f = \mathbb{R} - \{\frac{7\pi}{6} + 2k\pi, \frac{11\pi}{6} + 2k\pi\}$ ٨

ادامہ سوال 1 :

$$ج) \quad \tan n \rightarrow \cos n \neq 0$$

$$\cot n \rightarrow \sin n \neq 0$$

$$\cot n - 1 \neq 0 \quad \cot n \neq 1 \quad n \neq \frac{\pi}{4} + k\pi, \frac{k\pi}{4}$$

$$D_f = \mathbb{R} - \left\{ \frac{\pi}{4} + k\pi, \frac{k\pi}{4} \right\} \quad \text{I, V D}$$

$$>) \quad \sin n \neq 0 \quad \sin n \neq \frac{n}{k} \quad \sin n \neq \pm \sqrt{\frac{2}{2}} = \pm \frac{\sqrt{2}}{2}$$

$$D_f = \mathbb{R} - \left\{ \frac{\pi}{4} + k\pi \right\} \quad k \in \mathbb{Z}$$

$$y = \frac{1}{\sqrt{2|x-2| - \frac{1}{p}}}$$

$$2|x-2| - \frac{1}{p} > 0$$

$$2|x-2| > \frac{1}{p}$$

$$|x-2| > \frac{1}{2p}$$

$$x \begin{cases} x-2 > \frac{1}{2p} \\ x-2 < -\frac{1}{2p} \\ -x+2 > \frac{1}{2p} \end{cases}$$

$$x > \frac{1}{2p}$$

1, 2

$$D_f = \left(\frac{1}{2p}, +\infty\right) \cup \left(-\infty, \frac{1}{2p}\right)$$

$$x < \frac{1}{2p}$$

الف) $4-2|x| \geq 0$

$$2(2-|x|) \geq 0$$

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

$$|x| \leq 2$$

$$-2 \leq x \leq 2$$

$$D_f = [-2, 2]$$

ب) $y = \sqrt{\frac{|x|}{|x|}}$

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

Q ✓

9

10