

19. PD

صفتها حسن، با نام رضا، A ، $\frac{1}{2}$ ، $\frac{1}{2}$

$$\bullet \frac{1}{2-1} \xrightarrow{5/2-1} \frac{2 \cdot 1}{2-1} \xrightarrow{*} \frac{1}{2-1} \xrightarrow{5/2-1} 2^2 - 2 \cdot 50 \rightarrow 2 \cdot 50 \times * (1$$

فصل در دین

$$\bullet \frac{251}{7} \rightarrow \frac{1}{2-1} \rightarrow 2-2+1 \rightarrow -2^r + 2n-1 \rightarrow 251 \times$$

الف

• $\left| \frac{r_2 - 1}{2} \right| < r \rightarrow -r < \frac{r_2 - 1}{2} < r$ ① $r_2 - 1 > -r_2 \rightarrow 2 > 1/1/2$ (1/2)

② $\gamma_{2-1} < \gamma_2 \rightarrow R - \{0\}$ من غير $\Rightarrow$ $\gamma_{2-1} = (1, +\infty)$ موجب

5)

$$\left| \frac{2-r}{r_{2+1}} \right| > 1 \rightarrow \frac{2-r}{r_{2+1}} > 1 \rightarrow \frac{2-r-r_{2+1}}{r_{2+1}} < \frac{-2-r}{r_{2+1}} < 0 \quad \left| \frac{-r}{-r} \right| = 1$$

①: $\frac{2-r}{r_2+1} \leftarrow -1 \rightarrow \frac{2-r+2r+1}{r_2+1} \leftarrow 0 \rightarrow \frac{r_2-1}{r_2+1} \leftarrow$

• ① و ② $\subseteq \phi$ جواب ندارد $x \in (-\frac{1}{r}, \frac{1}{r}) \cup (\frac{1}{r}, \frac{1}{r})$

$$2^r \leq 12 + 4 \xrightarrow{2^r - 4} 2^r \leq 2 + 4 \rightarrow 2^r - 2 - 4 \leq \frac{-r^2 + 16}{4} \quad (1)$$

⑤: $25 - 4 \rightarrow 2^2 \times 2 - 4 \rightarrow 2^2 + 2 + 4 \rightarrow \Delta C$ دینا

$$|2 - \alpha| < \beta \rightarrow -\beta < 2 - \alpha < \beta \rightarrow \underbrace{-\beta + \alpha}_{\alpha} < 2 < \underbrace{\alpha + \beta}_{\alpha}$$

$$\frac{\gamma + \beta}{\gamma - \beta} \leq 1$$

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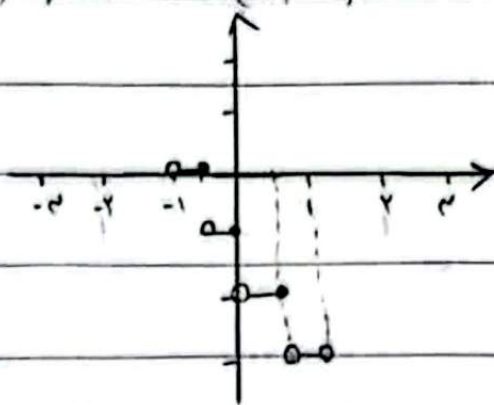
الف) $y \in [-2, 2] - 1 \quad 2 \in (-1, 1) \Rightarrow -2 \in (-2, 2)$ (4)

$-2 < 2 < -1 \rightarrow -2 \rightarrow y \in -2$

$-1 < 2 < 0 \rightarrow -1 \rightarrow y \in -1$

$0 < 2 < 1 \rightarrow 0 \rightarrow y \in 0$

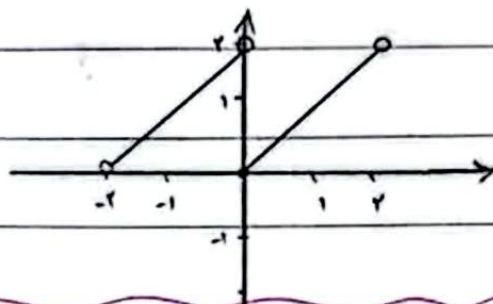
$1 < 2 < 2 \rightarrow 1 \rightarrow y \in 1$



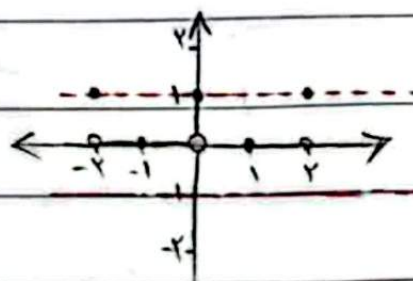
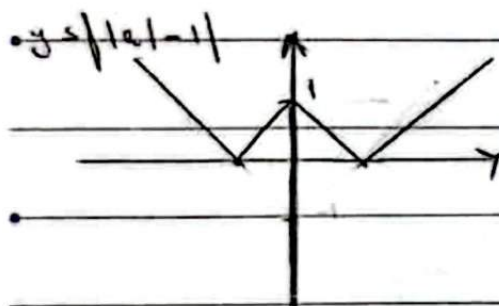
ب) $y \in 2 - 2 \left[\frac{x}{2} \right] \quad 2 \in (-2, 2) \Rightarrow \left[\frac{x}{2} \right] \in (-1, 1)$

$-1 < \frac{x}{2} < 0 \rightarrow -1 \rightarrow y \in 2, 2$

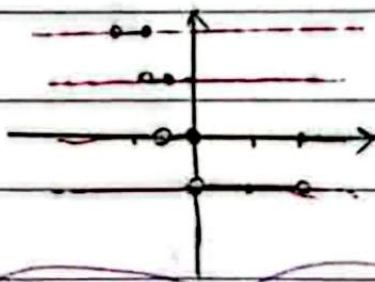
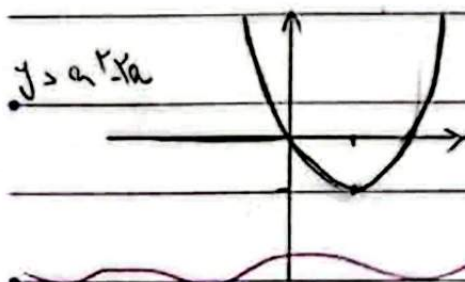
$0 < \frac{x}{2} < 1 \rightarrow 0 \rightarrow y \in 2$



الف) $y \in [|x| - 1] \quad 2 \in [-2, 2]$ (4)



ب) $y \in [e^x - 2] \quad 2 \in [-1, 2]$ (5)



$a + [b] \in (-2, 2) \Rightarrow$ مستقيم $a \in (-2, 2) \Rightarrow [a] + [b] \in (-2, 2)$ (4)

$b - [a] \in (-2, 2) \Rightarrow$ مستقيم $b \in (-2, 2) \Rightarrow [b] - [a] \in (-2, 2)$ (5)

$\rightarrow a + b \in (-2, 2) \quad c, d \in (-2, 2) \rightarrow [a] + [b] \in (-2, 2) \quad \rightarrow [c] + [d] \in (-2, 2)$



Year:

Month:

Day:

| |

Subject:



$$(1+\sqrt{2})^4 + (1-\sqrt{2})^4 = 198 \Rightarrow (1+\sqrt{2})^4 \leq 198 - (1-\sqrt{2})^4 \quad (1/0)$$

$$(1-\sqrt{2})^4 \in (0, 1) \leftarrow 1-\sqrt{2} \in (-1, 0) \text{ : من 0 و 1 } *$$

$$\Rightarrow [(1+\sqrt{2})^4] \leq [198 - (1-\sqrt{2})^4] \Rightarrow [(1+\sqrt{2})^4] \leq 195 \quad \checkmark$$

$$\lambda \in (195, 198)$$