

$\int x_{k+1} \rightarrow \frac{1}{x_{k-1}} = k-1 \rightarrow k^2 - 2k \rightarrow k(k-2) \begin{cases} \text{مربع ناقص} \\ \text{مربع ناقص} \end{cases}$
 $\int x_{k-1} \rightarrow \frac{1}{x_{k-1}} = -k+1 \rightarrow k^2 - 2k + 2 = 0 \rightarrow \Delta < 0 \rightarrow \text{مربع ناقص}$

⑦

دَقْدَا: $n > \frac{1}{f}$ $\rightarrow 1 < Ex \rightarrow$ ~~$Ex > 1$~~

$(1, v, w)$

$$\text{ii) } \frac{x-r}{r_{k+1}} > 1 \rightarrow \frac{x-r}{r_{k+1}} > 0 \rightarrow \frac{-r}{-\phi + \phi} \rightarrow (-r, \frac{-r}{r}), \frac{x-r}{r_{k+1}} < -1 \rightarrow \frac{r_{k+1}-1}{r_{k+1}} \cdot X_0 \rightarrow \frac{-r}{-\phi + \phi} \rightarrow (-\frac{r}{r}, \frac{r}{r}) \cup (-\frac{r}{r}, \frac{r}{r})$$

$$u^T(x+y) \rightarrow u^T x - y < 0 \rightarrow (x-y)(u^T) < 0 \rightarrow \begin{array}{c|c} - & + \\ \hline + & - \end{array} \rightarrow (\text{circled } 0, \text{ circled } 0) \rightarrow (-1, 1)$$

(t, v_A)

$$a - \beta < u < a + \beta$$

$\alpha - \beta = -r$
 $\alpha + \beta = r$

$\Rightarrow \alpha = \frac{+1}{r}$

دقت!

$$\begin{cases} 1 & x \leq -1 \\ x+1 & -1 < x \leq 0 \\ -x+1 & 0 < x \leq 1 \\ -1 & x > 1 \end{cases}$$

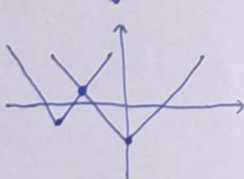
$$\begin{cases} \text{Max} = 1 \\ \text{Min} = -1 \end{cases} \Rightarrow 1 - 1 = 0$$

(r)

تفسيرات مفقود روس خود « اجزایه

$$y = \left| \frac{1}{r}x \right| - 2 \xrightarrow[\text{مختصات}]{\text{اوضاع به طرف}} \left| \frac{1}{r}x + \varepsilon \right| - 2 \xrightarrow[\text{مختصات}]{\text{اوضاع به طرف}} \left| \left(\frac{1}{r}x + \varepsilon \right) \right| - 1 \rightarrow \frac{1}{r}x + \varepsilon - 1 = \frac{-1}{r}x - 2 \rightarrow \boxed{2\varepsilon = 0}$$

①



$$-1 < u < 0$$

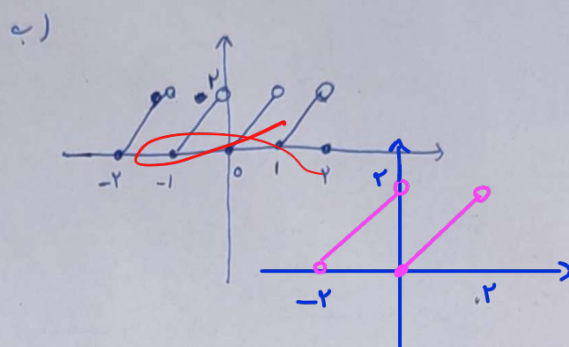
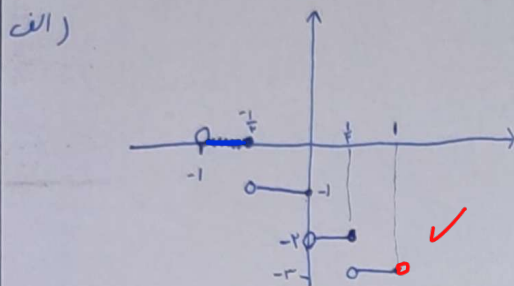
$$u + f + u = -1 \Rightarrow u = -\frac{1}{2}$$

الف) $[-(|x-1|+|x+1|)] \rightarrow$ $\rightarrow R_f = \{x, y \mid x \in \mathbb{Z}, y \leq 0\}$

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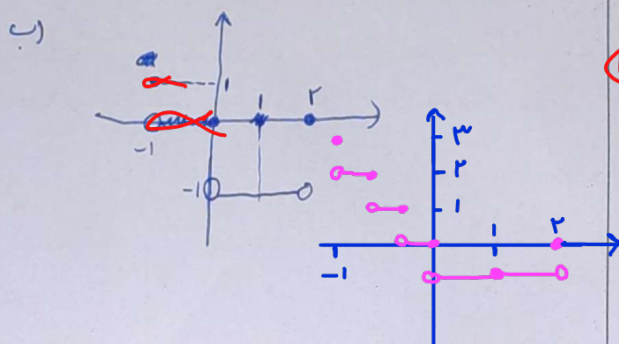
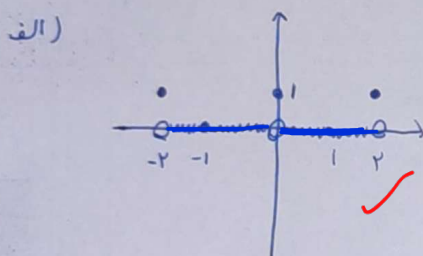
ب) $\frac{1}{x} - [\frac{1}{x}] \neq 1 \Rightarrow R_f = \{x, y \mid x \in \mathbb{Z}, y < 1\} \rightarrow R = \{-1, 0\}$

6



11

7



1, 5

8

$a = x, y \Rightarrow [a] + [b] = 4$
 $b = y, 4 \Rightarrow [b] - [a] = 2$
 $\rightarrow 2[b] = 6 \rightarrow b = 3, 4$
 $a = 1, 2 \Rightarrow a + b = 4, 6$

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9

$[(1+\sqrt{2})^2] = [19.8 - (1-\sqrt{2})^2] = [19.8 - (4.9 + 0.0 - 1.414)] = [9.9 + 1.414] = 9.9 + 1.414 = 11.314 \Rightarrow 11$

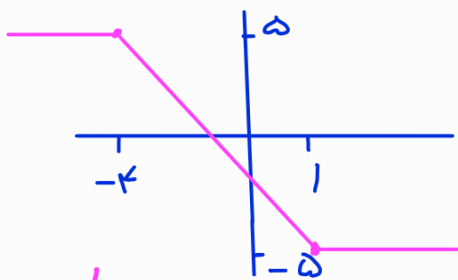
21

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$$[|n-1| - |n+4|]$$

$$R = \{-5, -4, \dots, 5\}$$

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۶ الف)