

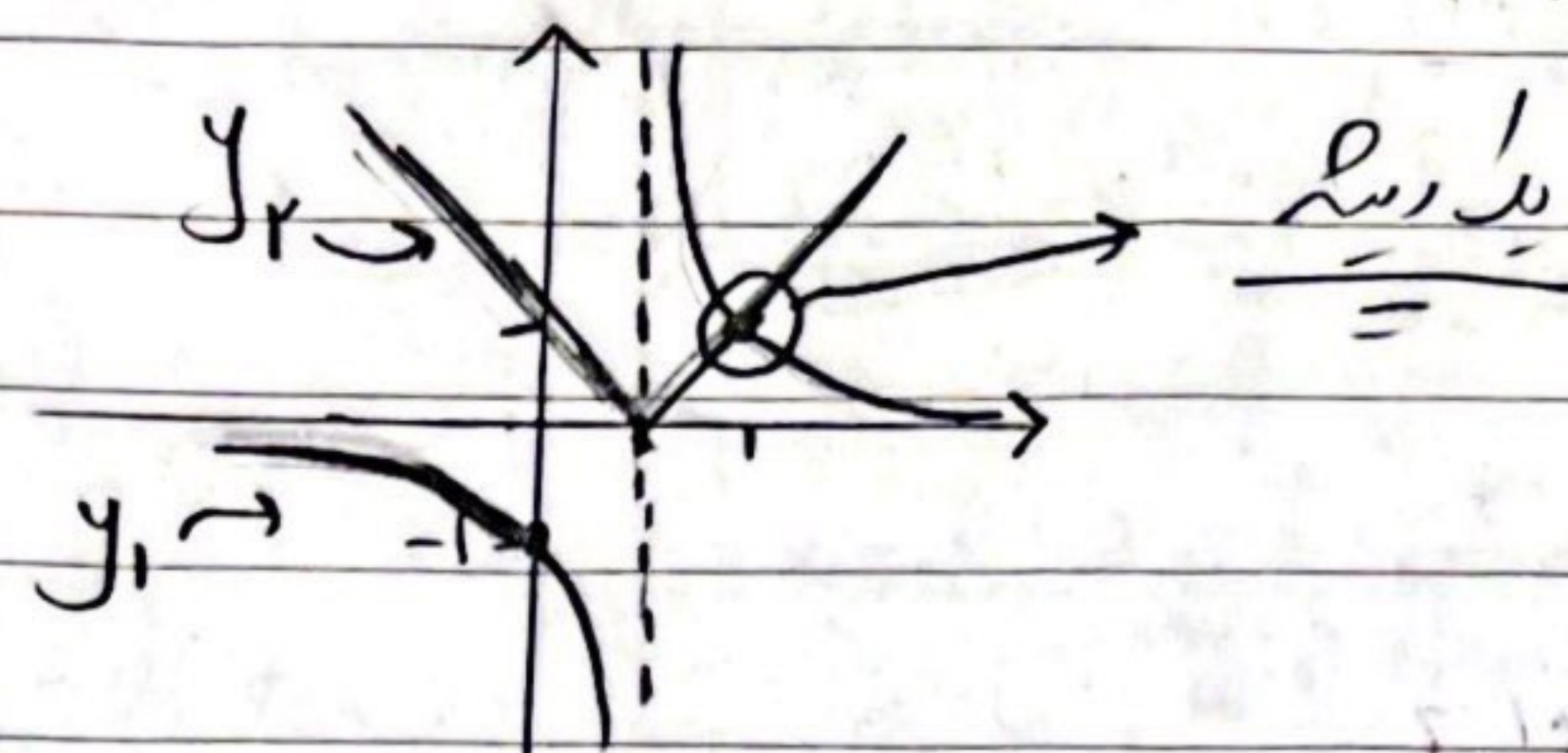
تکلیف شماره ۲۰

بازرسی و نقد

اینجا بنویسید

۱۹

$$y_1 = \frac{1}{n-1} = |n-1|$$



$$\frac{y_1}{y_2} = \frac{1}{|n-1|}$$

-1

رسم مثلث

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$$\frac{1}{n-1} = 1 \Rightarrow n-1 = 1 \Rightarrow n = 2$$

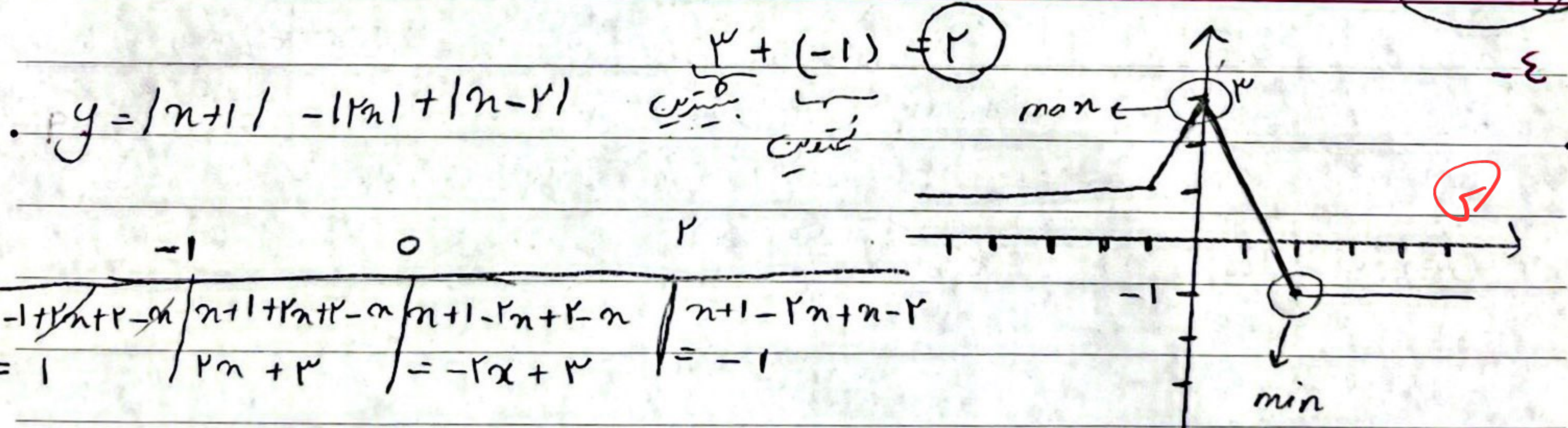
الف) $\left| \frac{y_{n-1}}{n} \right| < 2 \Rightarrow -2 < \frac{y_{n-1}}{n} < 2 \Rightarrow n \neq 0$

ب) $\left| \frac{n-2}{y_{n+1}} \right| > 1 \Rightarrow \frac{n-2}{y_{n+1}} < -1 \Rightarrow n-2 < -y_{n+1} \Rightarrow n < \frac{1}{y_{n+1}}$

$$x \in \left(-\frac{1}{r}, -\frac{1}{r}\right) \cup \left(-\frac{1}{r}, \frac{1}{r}\right)$$

$|n-\alpha| < \beta \Rightarrow \alpha = \rho$

$-2 < n < 2 \Rightarrow -2 - \frac{1}{r} < n - \frac{1}{r} < 2 - \frac{1}{r} \Rightarrow -\frac{\omega}{r} < n - \frac{1}{r} < \frac{\omega}{r} \Rightarrow \alpha = \frac{1}{r}$



$y = \left| \frac{1}{r} n \right| - r \Rightarrow y_r = \left| \frac{1}{r} n + \varepsilon \right| - 1 = \left| \frac{1}{r} n + r \right| - 1$

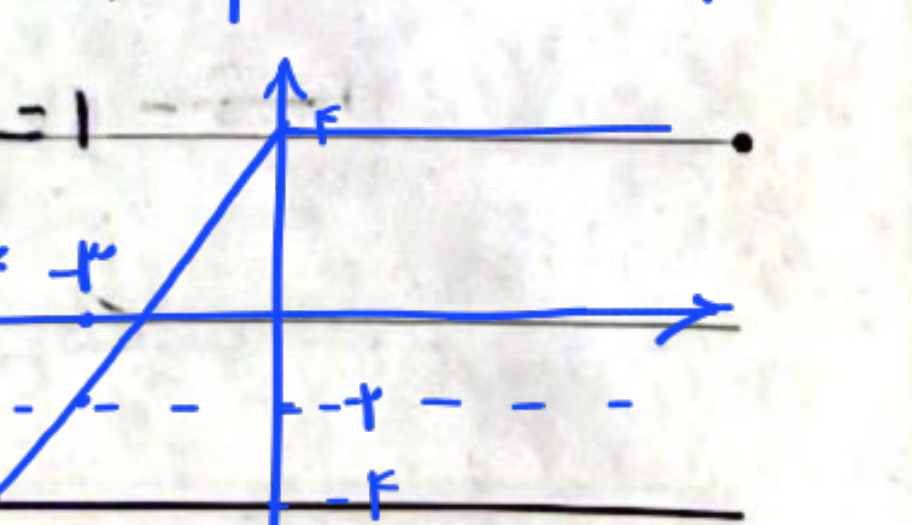
$$\left| \frac{1}{r} n \right| - r = \left| \frac{1}{r} n + \varepsilon \right| - 1$$

$$\left| \frac{1}{r} n \right| - \left| \frac{1}{r} n + \varepsilon \right| = 1$$

$\varepsilon = 1$

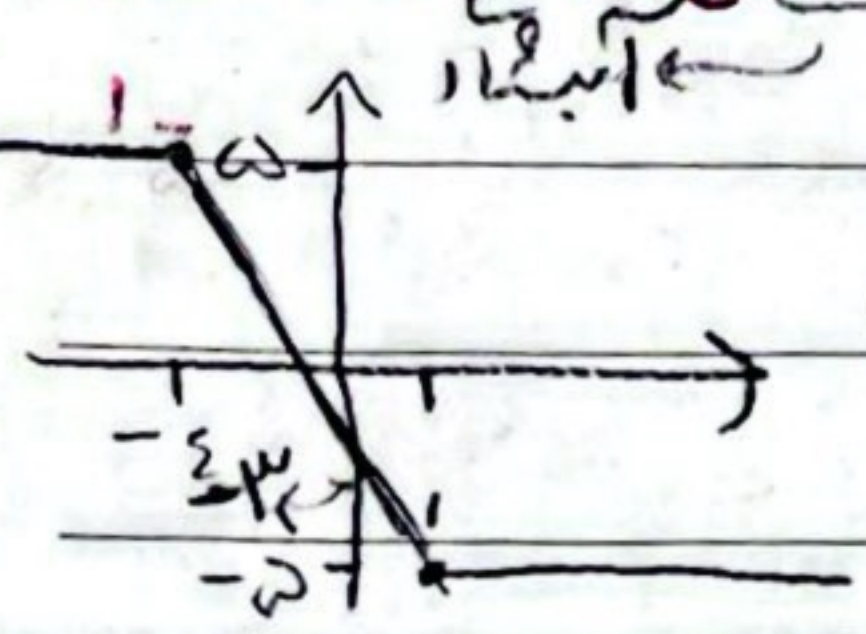
$y = y'$

$|n+r| - |n| = -r$



الف) $f(n) = [1 - \alpha - |n + \epsilon|]$

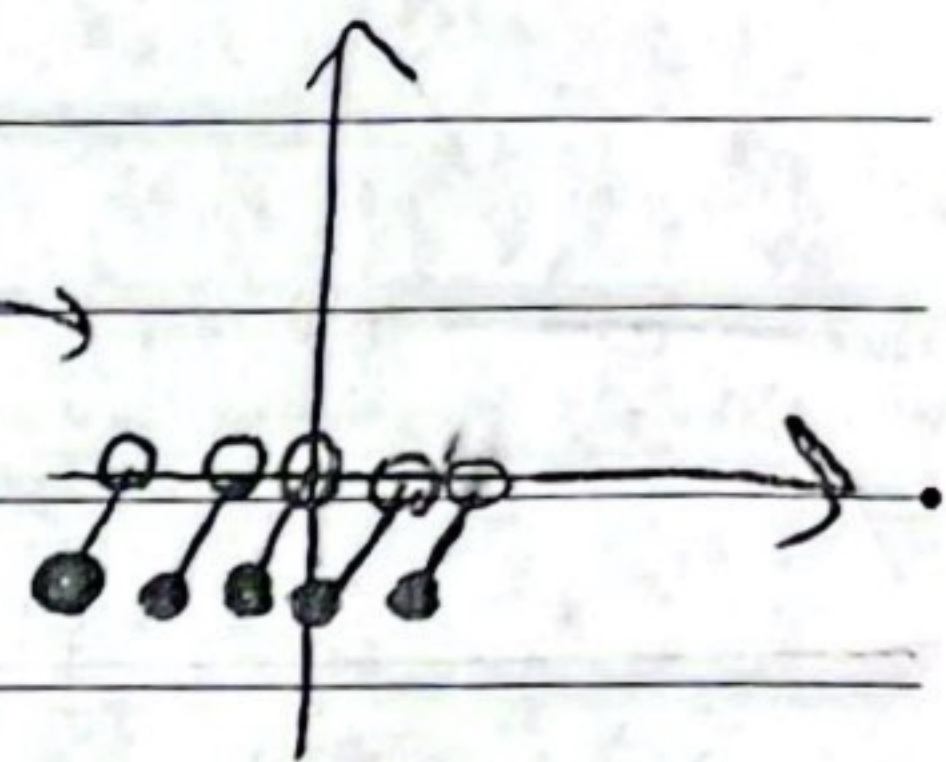
$R_f = \{-\infty, -\epsilon, -\epsilon - 1, -\epsilon - 2, \dots, \infty\}$



$R_f = [-\infty, \infty]$

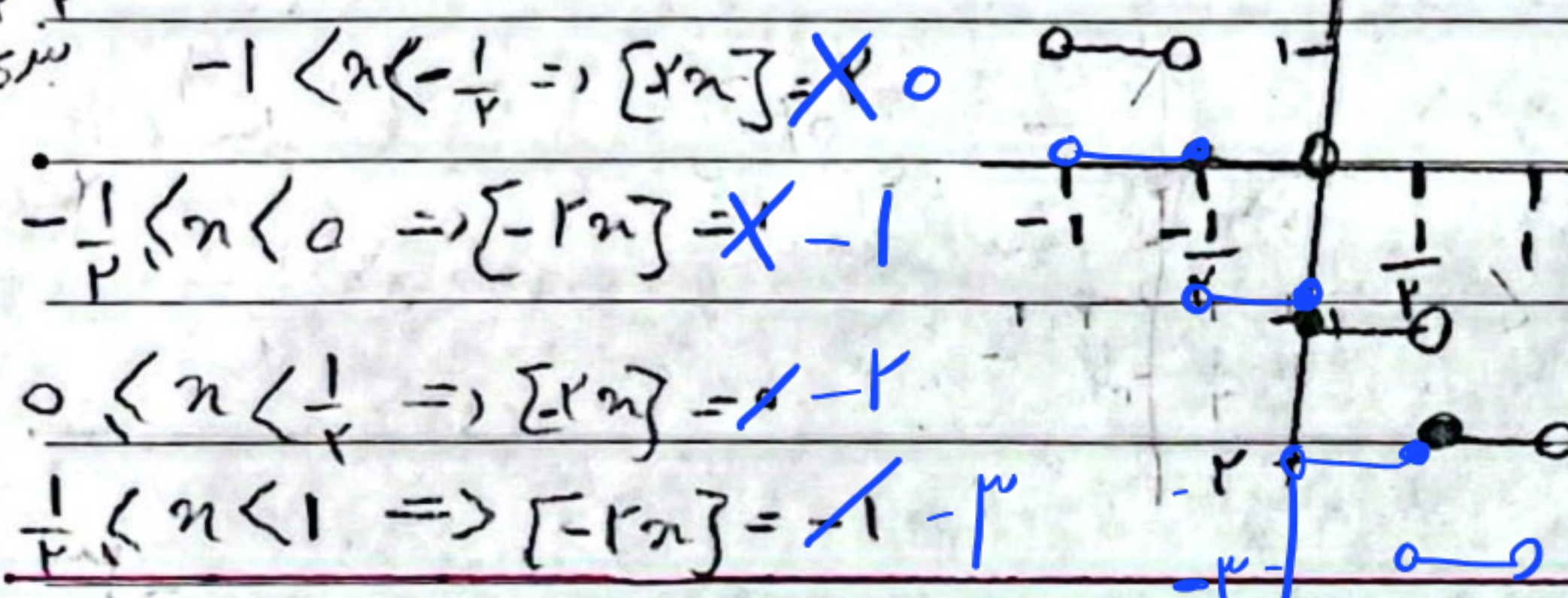
ب) $f(n) = \frac{1}{n} - \left[\frac{n+1}{n} \right] = \frac{1}{n} - 1 - \left[\frac{1}{n} \right] = \frac{1}{n} - \left[\frac{1}{n} \right] - 1$

$R_f = [-1, 0)$



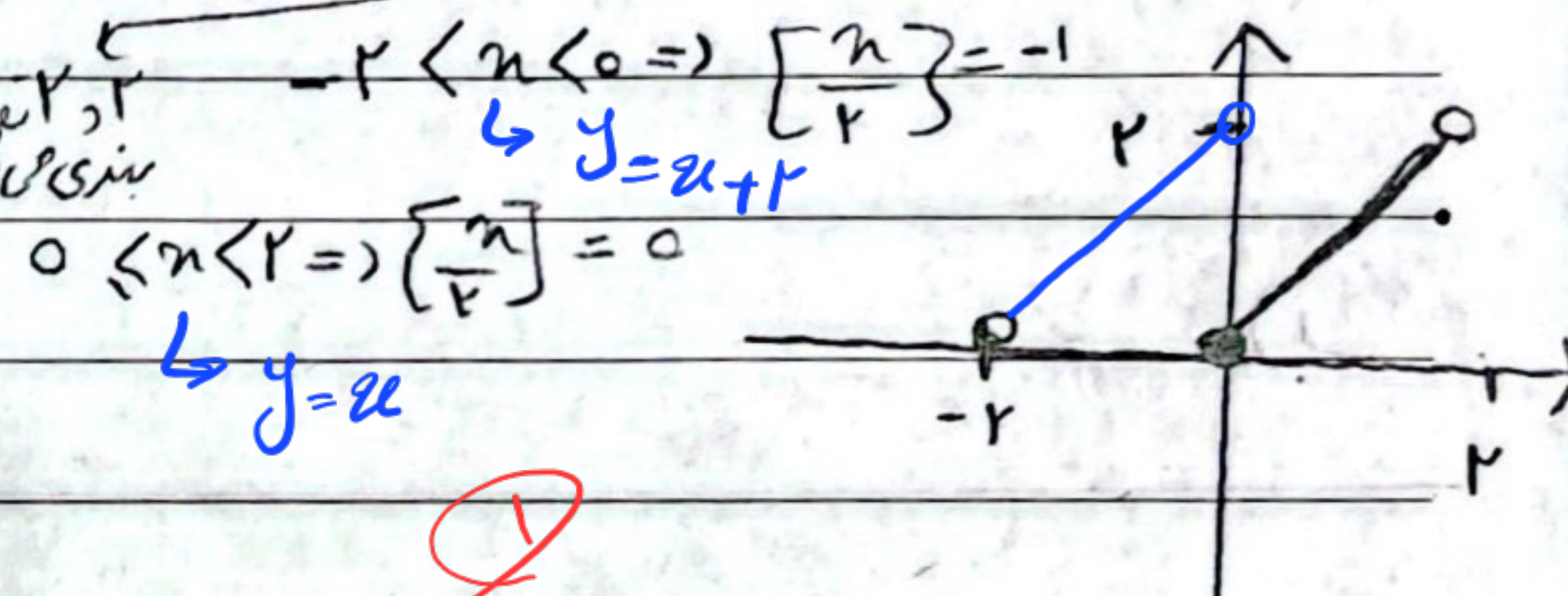
الف) $y = [-2n] - 1$ $n \in (-1, 1)$

تقسیم
1/2
1/2
1/2
1/2

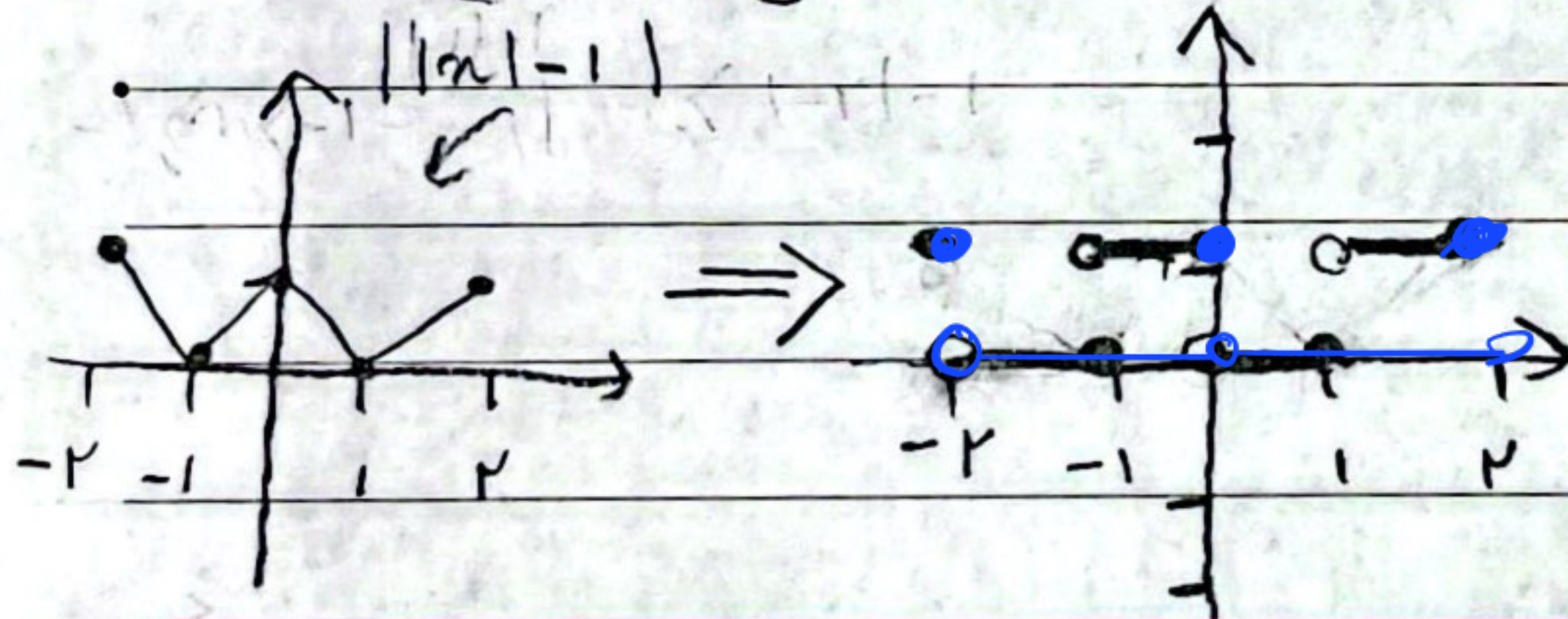


ب) $y = n - 2 \left[\frac{n}{2} \right]$ $n \in (-2, 2)$

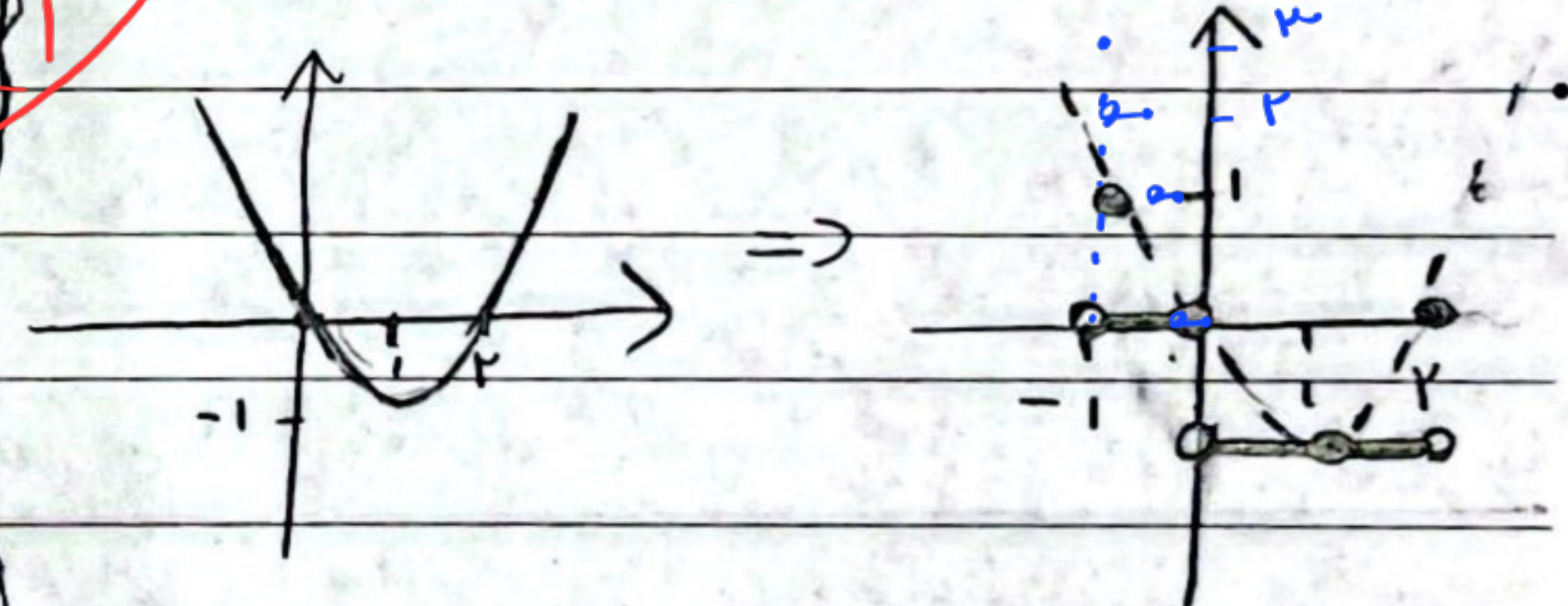
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الف) $y = [|n| - 1]$ $n \in [-2, 2]$



ب) $y = [n^2 - 2n]$ $n \in [-1, 2]$



$a + [b] = \epsilon, \epsilon$

$a + b + [b] - [a] = 2[b] + 0, \epsilon + 0, \epsilon = \epsilon, \epsilon$

-9.

$b - [a] = \epsilon, \epsilon$

$2[b] + 0, \epsilon$

$2[b] = \epsilon \Rightarrow [b] = \epsilon$

$a + b = ?$

$1, \epsilon + \epsilon, \epsilon = \boxed{2, \epsilon}$

$\epsilon, \epsilon - [a] = \epsilon, \epsilon \Rightarrow [a] = 1$
 $\Rightarrow a = 1, \epsilon$

$(1 + \sqrt{2})^6 + (1 - \sqrt{2})^6 = 19\lambda \Rightarrow (1 + \sqrt{2})^6 = 19\lambda - (1 - \sqrt{2})^6$

-10

$[(1 + \sqrt{2})^6] = ?$

$[(1 + \sqrt{2})^6] = [19\lambda - (1 - \sqrt{2})^6]$

عدد صحیح از منفرد + کوچکتر از 0 به توان زوج رسیده = کوچکتر از 1 می شود

پس جزء صحیح عبارت برابر با 197 می باشد