

$$y = x + |x - c|$$

$$R_f = [r, +\infty)$$

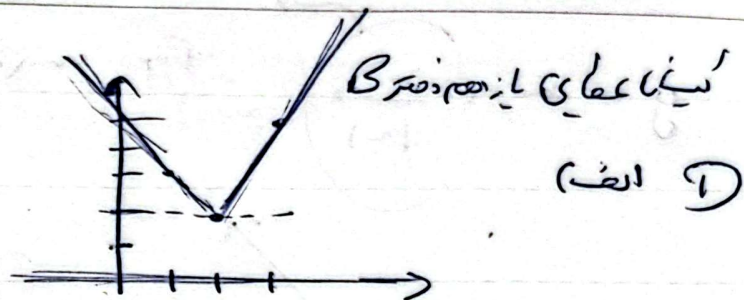
$$|m - r| + |m - 1| \neq -|m|$$

$$m > r: m - r + m - 1 + m = 3m - r - 1$$

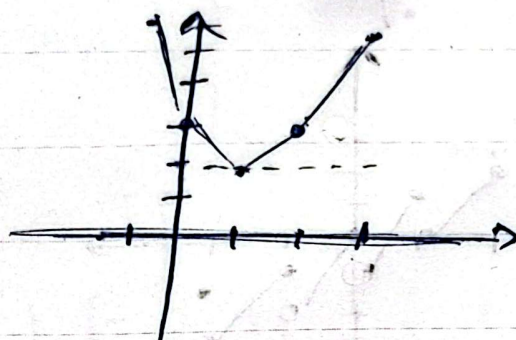
$$r > m > 1: r - m + m - 1 + m = m + r - 1$$

$$1 > m > 0: r - m + m + 1 - m \Rightarrow r - m$$

$$m < 0: r - m + 1 - m - m = r - 3m + 1$$



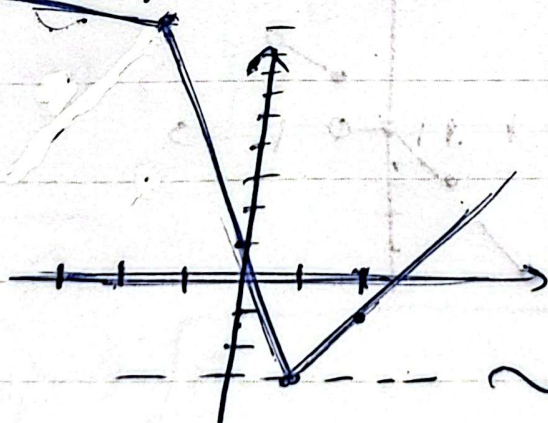
(c,



$$R_f = [r, +\infty)$$

②

$$|x - r| - |x + r| = k \quad k?$$

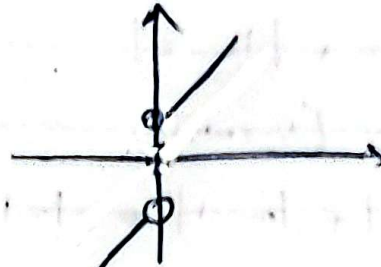


$$k = -r$$

for $n > 0 = 1$
for $n < 0 = -1$

$$y = n + \frac{n}{|n|}$$

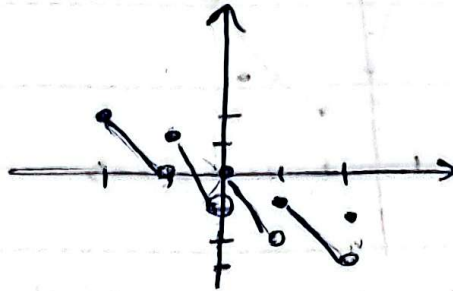
(2)



$$y = n|n| - \frac{n}{|n|}$$

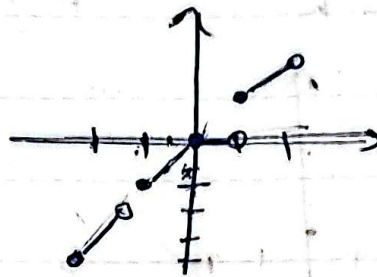


$$y = [n] - n$$



(3)

$$y = [n]|n|$$



$$y = \{n\} - [n] \quad \{n\} = \alpha \text{ where } \alpha - [n] < 1$$

[0, 1)

(4)

$$\{n\} = \{ [n] \} = \{ (n - [n]) \} \quad \{n\} \in [0, 1) = [0, 1)$$

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$$y = n - a \left[\frac{n}{a} \right] \leadsto a \frac{n}{a} - a \left[\frac{n}{a} \right] = a \left(\frac{n}{a} - \left[\frac{n}{a} \right] \right)$$

$$\omega \times [0, 1) = [0, \omega)$$

$$y = [r_n] - r_n = (-1, 0]$$

$$y = r \sin \theta + r \cos \theta \quad (a \sin \theta + b \cos \theta \leq \sqrt{a^2 + b^2}) \quad (9)$$

$$\hookrightarrow [-\sqrt{14}, +\sqrt{14}]$$

$$y = r \sin \theta - r \cos \theta \quad \hookrightarrow [-a, +a]$$

$$y = [r \sin \theta + \omega \cos \theta] \quad \hookrightarrow \begin{cases} [-\sqrt{r^2}] = -9 \\ [\sqrt{r^2}] = \omega \end{cases}$$

$$\{k \in \mathbb{Z}, -1 \leq k \leq \omega\}$$

$$y = \sqrt{\cos \theta - r \sin \theta} \quad \xrightarrow{\text{بدراسة قيمته}} \sqrt{[-\sqrt{a}, \sqrt{a}]} = [0, \sqrt{a}]$$

$$y = \delta \sin \omega t + r \delta \sin \omega t + r \frac{-v}{\lambda} \rightarrow 0 \quad [0, \epsilon] \quad (v)$$

$$\delta \sin \omega t = \frac{-v}{\lambda} \lambda$$

$$y = r \delta \sin \omega t + r \delta \sin \omega t + r \rightarrow \sin \omega t = \frac{-v}{\epsilon} \rightarrow$$

$$-1 \left(\frac{1}{\lambda} \right) - r \left(\frac{v}{\epsilon} \right) + r = \frac{v}{\lambda}$$

$$r - \epsilon + r = 1 \quad [0, v]$$

$$y = \delta \sin \omega t + \epsilon \cos \omega t = 1 + r \cos \omega t \rightarrow [1, \epsilon] \quad (1)$$

$$y = \frac{r \cos \omega t}{1 + \cos \omega t} \rightarrow \frac{r \sin \omega t \cos \omega t}{\sin \omega t} = \sin \omega t \rightarrow [-1, 1]$$

$$y = \sin \omega t + \cos \omega t \rightarrow k = \infty \quad [1, \frac{1}{\epsilon} > 1] \quad (9)$$

$$y = [\sin \omega t + \cos \omega t] \Rightarrow \{0, 1\}$$

$$y = \frac{r_n r + v_n - \epsilon}{n + \epsilon}$$

$$\frac{r_n r + v_n - \epsilon}{r_n r + 1} \rightarrow \frac{n + \epsilon}{r_n - 1}$$

$$r_n - 1$$

$$IR = \{-93\}$$