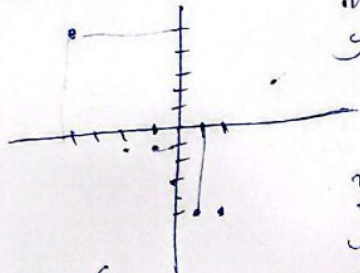






الف



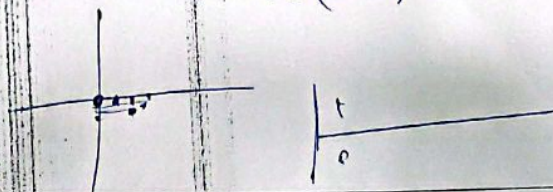
$$\begin{array}{r|l} n & 0 \quad 1 \quad 2 \quad 3 \\ y & -5 \quad -4 \quad -3 \quad -2 \end{array}$$

$$\begin{array}{r|l} n & -1 \quad -2 \quad -3 \\ y & -1 \quad -2 \quad -3 \end{array}$$

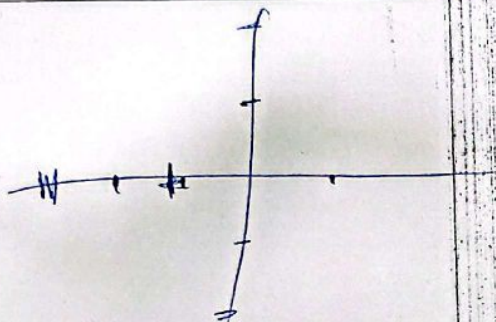
$$R = \{x | x \in \mathbb{Z}, x \in [-5, 0]\}$$

$$\frac{1}{n} - \left[1 + \frac{1}{n}\right] = \frac{1}{n} - 1 - \left[\frac{1}{n}\right] = \frac{1}{n} - 1$$

$$\Rightarrow R = (-\infty, +\infty)$$



الف



$$b - [a] = r, \epsilon \Rightarrow b = n + i, \epsilon$$

$$a + [b] = \epsilon, r \Rightarrow a = y + i, r$$

$$a + b = y + i, r + n + i, \epsilon = n + y + i, r + \epsilon$$

$$\left. \begin{array}{l} a = i, r \\ b = \epsilon, \epsilon \end{array} \right\} a + b = \epsilon, r$$