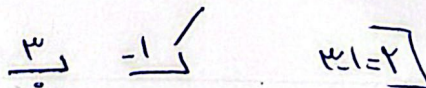


9

9

$$\beta = \frac{\mu(-r)}{r} = \frac{\omega}{r}$$



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

$$-\left\langle \frac{1}{x} - \left[\frac{1}{x} \right] \right\rangle < 1 \quad -\left\langle \frac{1}{x} - \left[\frac{1}{x} \right] - 1 \right\rangle < 0$$

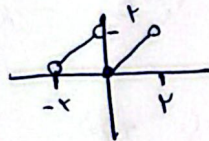
$$x = [-1, 0)$$

$$\begin{array}{c|c|c} -5 & 1 & \\ \hline 1-x, x, x+1 & 1-x, x, x+1 & x-1, x-1 \\ \hline \omega & -2\pi, \pi & -\omega \end{array}$$

$$[[-a, a]] = \{ -\omega, -\epsilon, -\epsilon, -\epsilon, -1, 0, 1, 2, 3, \epsilon, \omega \}$$

$$-x < x < 0 \quad x-2 \left[\frac{x}{2} \right] = x-2$$

$$x < x < 2 \quad x-2 \left[\frac{x}{2} \right] = x$$

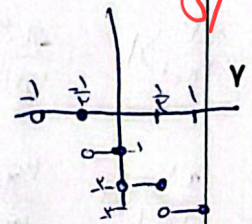


$$-1 < x < \frac{1}{2} \rightarrow y = 0$$

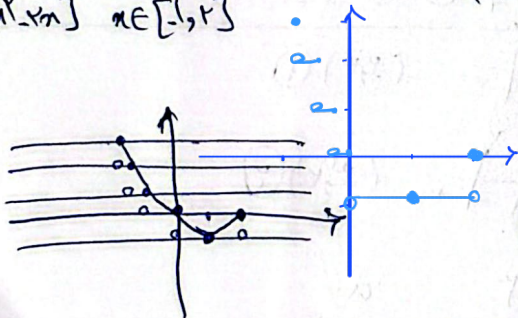
$$\frac{1}{2} < x < 1 \rightarrow y = -1$$

$$1 < x < \frac{3}{2} \rightarrow y = -2$$

$$\frac{3}{2} < x < 2 \rightarrow y = -3$$



$$y = [x] - x, \quad x \in [-1, 2]$$



$$(-1, -1) \rightarrow |x| = -x \rightarrow [x] = [x] - 1$$

$$(1, 0) \rightarrow |x| = x \rightarrow [x] = [x] - 1$$

$$(0, 1) \rightarrow |x| = 1 - x \rightarrow [x] = [x] - 1$$

$$(1, 2) \rightarrow [x] = [x] - 1$$

$$x = \frac{1}{2} \rightarrow y = -1 \quad x = 1 \rightarrow y = 0$$

$$x = -1 \rightarrow y = 0 \quad x = 2 \rightarrow y = 1$$



$$a \in \mathbb{Q} \mid a = 0, x$$

$$b \in \mathbb{Q} \mid b = 0, x$$

$$\begin{cases} [b] - [a] = 2 \\ [a] + [b] = 4 \end{cases}$$

$$x[b] = 4 \quad [b] = 4$$

$$[a] = 1$$

$$b = 3, 4$$

$$a = 1, 2$$

$$a, b = 4, 4$$

$$-1 < 1 - \sqrt{2} < 0$$

$$0 < (1 - \sqrt{2})^4 < 1$$

$$(1 + \sqrt{2})^4 + (1 - \sqrt{2})^4 = 194$$

$$194, -$$

$$(1 - \sqrt{2})^4 = 194, -$$

$$[(1 + \sqrt{2})^4] = 194$$