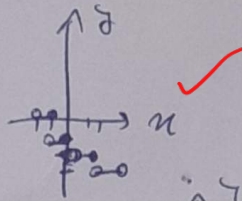
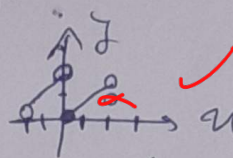


$$v) y_2[-2x] - 1 \quad x \in (-1, 1)$$

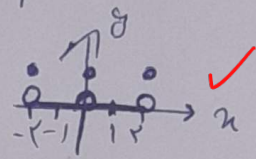


(2)

$$-.) y_2[x - 2] \cdot x \in (-1, 2)$$

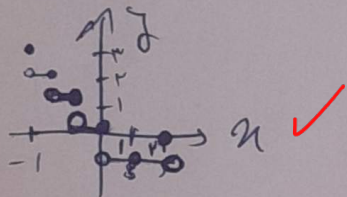
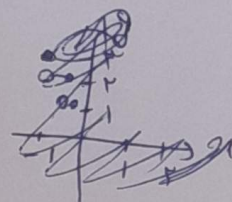


$$^{\wedge} \omega) y_2[|x| - 1] \rightarrow x \in [-2, 2]$$



(2)

$$-.) y_2[x^2 - 2x] \rightarrow x \in [-1, 2]$$



$$9) \begin{aligned} a + [b] &\in \mathbb{R} \quad [a + [b]] \in \mathbb{R} \rightarrow [a] + [b] \in \mathbb{R} \\ b - [a] &\in \mathbb{R} \quad [b - [a]] \in \mathbb{R} \rightarrow [b] - [a] \in \mathbb{R} \end{aligned}$$

(2)

$$\begin{aligned} a + [b] &\in \mathbb{R} \rightarrow a \in \mathbb{R} \\ b - [a] &\in \mathbb{R} \rightarrow b \in \mathbb{R} \rightarrow a + b \in \mathbb{R} \end{aligned}$$

$$10) (1 + \sqrt{2})^4 + (1 - \sqrt{2})^4 \in \mathbb{N} \rightarrow (1 + \sqrt{2})^4 \in \mathbb{N} - (1 - \sqrt{2})^4$$

$$1 - \sqrt{2} \approx -0.414 \rightarrow -1 < (1 - \sqrt{2})^4 < 0 \rightarrow [(1 + \sqrt{2})^4] \in \mathbb{N} + (-1) \in \mathbb{N}$$

(2)