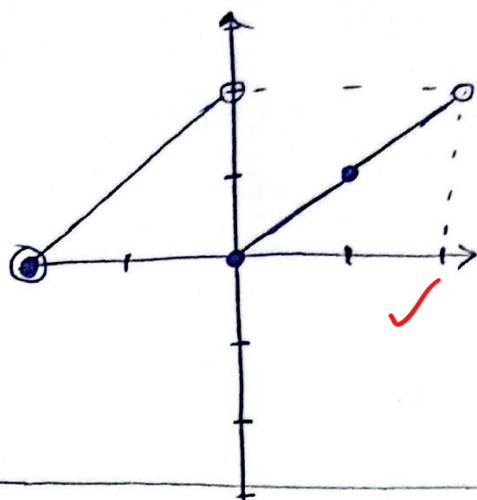
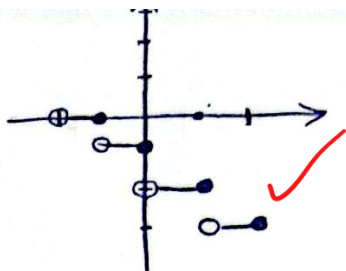


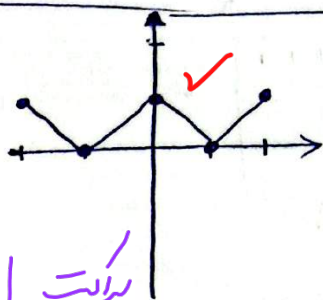
$$y = [-x_2] - 1 \quad x \in (-1, 1)$$



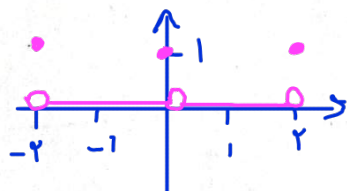
(2)

$$y = x - 2 \left\lfloor \frac{x}{2} \right\rfloor \quad x \in (-2, 2)$$

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

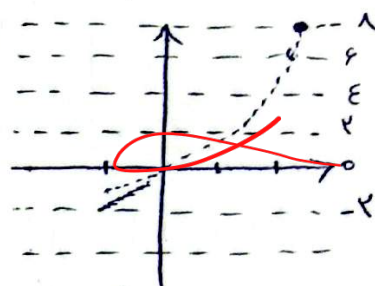
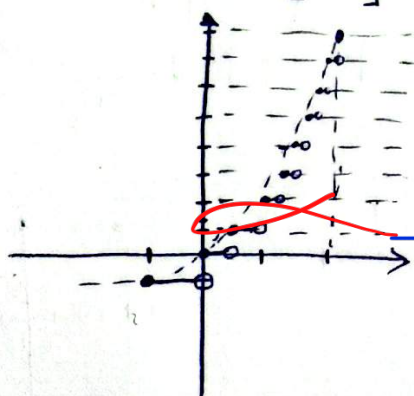


برای



$$y = [x^2 - x_2]$$

$$x \in [-1, 2]$$



(2)

$$\begin{aligned} b - [a] &= 2, 8 \\ a + [b] &= 8, 2 \Rightarrow [a] + [b] = 8 \\ -[a] + [b] &= 2 \end{aligned} \Rightarrow \begin{aligned} [b] &= 2 \Rightarrow [b] = 2 \Rightarrow b = 2, 8 \\ [a] &= 1 \Rightarrow a = 1, 2 \end{aligned}$$

(2)

$$(1 + \sqrt{2})^4 + (1 - \sqrt{2})^4 = 19 \Rightarrow (1 + \sqrt{2})^4 = 19 - (1 - \sqrt{2})^4 \Rightarrow (1 + \sqrt{2})^4 = 19, \dots$$

$$\Rightarrow [(1 + \sqrt{2})^4] = 19 \checkmark$$

(2)