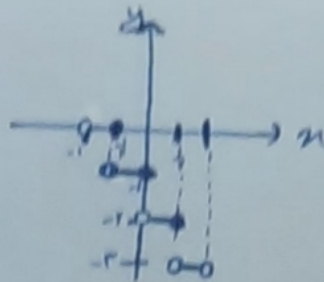


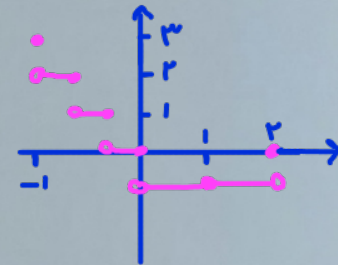
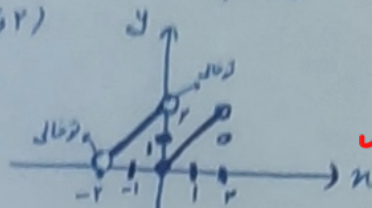
v) الف) $y = [-rn] - 1 \quad x \in (-b, 1)$



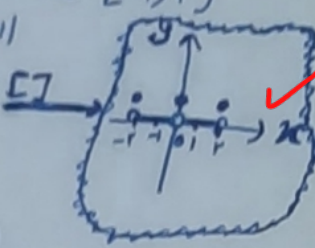
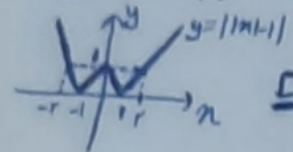
یا در آنجا که یکتا نیست = پارادوکس بر سر A

(۲)

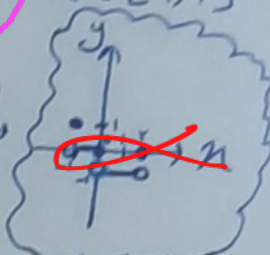
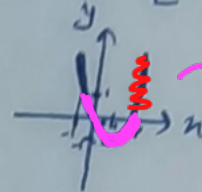
ب) $y = x - r \left[\frac{x}{r} \right] \quad x \in (-b, r)$



ج) الف) $y = [|x| - 1] \quad x \in [-r, r]$



ب) $y = [x^2 - rn] \quad x \in [-1, r]$



(۲.۵)

۹) $a + [b] = r, r \xrightarrow{[]} [a + [b]] = [r, r] \Rightarrow [a] + [b] = r$
 $b - [a] = r, r \xrightarrow{[]} [b - [a]] = [r, r] \Rightarrow [b] - [a] = r$

$a + [b] = r, r \xrightarrow{[b]=r} a = 1, r$
 $b - [a] = r, r \xrightarrow{[a]=1} b = r, r \Rightarrow a + b = 1, r + r, r = \{r, r\}$

(۲)

۱۰) $(1 + \sqrt{2})^5 + (1 - \sqrt{2})^5 = 19\lambda$

$1 - \sqrt{2} \leq -0.41 \Rightarrow -1 < (1 - \sqrt{2})^5 < 0$
 $\Rightarrow -1 < (1 - \sqrt{2})^5 < 0$
 $\Rightarrow [-(1 - \sqrt{2})^5] = -1 \quad (I)$

$(1 + \sqrt{2})^5 = 19\lambda - (1 - \sqrt{2})^5$
 $\Rightarrow [(1 + \sqrt{2})^5] = [19\lambda - (1 - \sqrt{2})^5] = 19\lambda + [-(1 - \sqrt{2})^5]$
 $(I) \Rightarrow [(1 + \sqrt{2})^5] = 19\lambda + (-1) = 19\lambda - 1$

(۲)