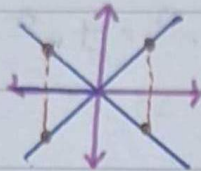


$$(1) \quad 3a^2 - 4a + 3 = 0 \quad 1 - 4 + 3 = 0 \quad a = 1, 3$$

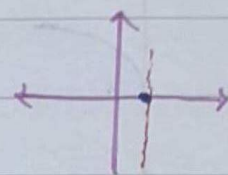
(۲)

تابع نیت (الف)



$$\text{تابع نیت} \quad \text{ثابت} \quad \text{ثابت} \quad y = 0 \rightarrow \text{تک نقطه} \quad |y-1| + \sqrt{x-1} = 0$$

$$x-1=0 \rightarrow x=1$$



(۳)

$$\text{الف} \quad x=3 \rightarrow |y-1| \geq \sqrt{3-1} \quad y-1=1 \rightarrow y=2$$

$$y-1=-1 \rightarrow y=0$$

$$\text{ب} \quad x=0 \rightarrow y^2=y \quad y=0 \quad y=1$$

$$\text{ج} \quad x=0 \rightarrow \cos \frac{y}{2} = \sqrt{1} \rightarrow \cos \frac{y}{2} = 1 \Rightarrow \frac{y}{2} = 0 \Rightarrow y=0$$

$$\text{د} \quad x=0 \rightarrow 2 \times 0 \times y = 0 \quad y \text{ بی شمار عدد}$$

(۴)

$$\text{الف} \quad x=1 \rightarrow |y-1| \geq 3 \rightarrow y-1 \geq 3 \Rightarrow y \geq 4$$

$$y-1 \leq -3 \Rightarrow y \leq -2$$

تابع نیت

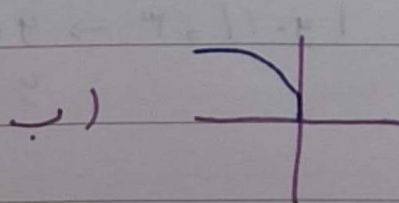
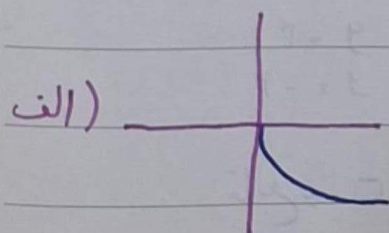
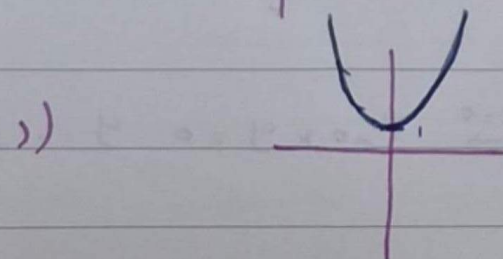
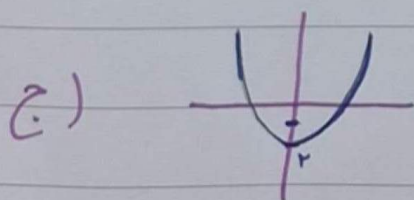
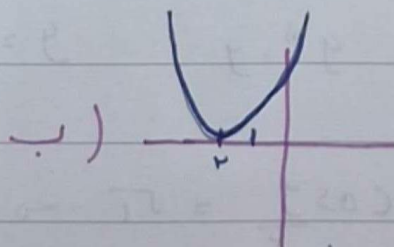
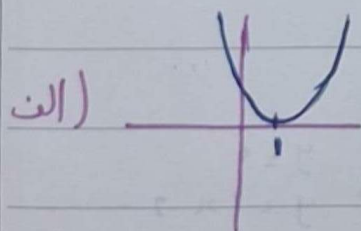
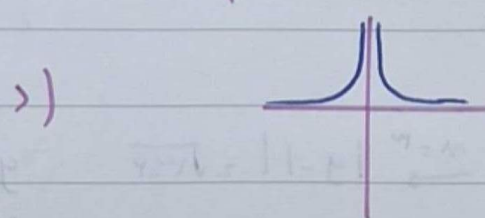
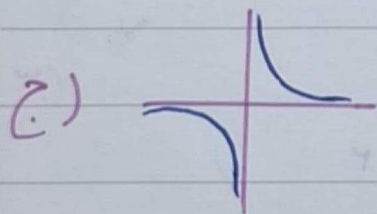
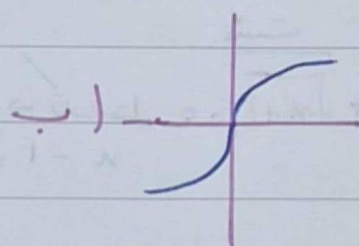
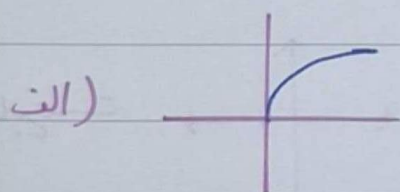
(ب) if $(x_1, y_1) \in f \xrightarrow{x_1 = x_2} y_1 = y_2$
 $(x_2, y_2) \in f$

$$\Rightarrow y_1 + x_1 = 0$$

$$y_2 + x_2 = 0$$

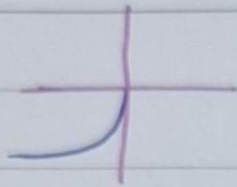
$$\Rightarrow y_1 = y_2 \Rightarrow y_1 = y_2$$

تتبع

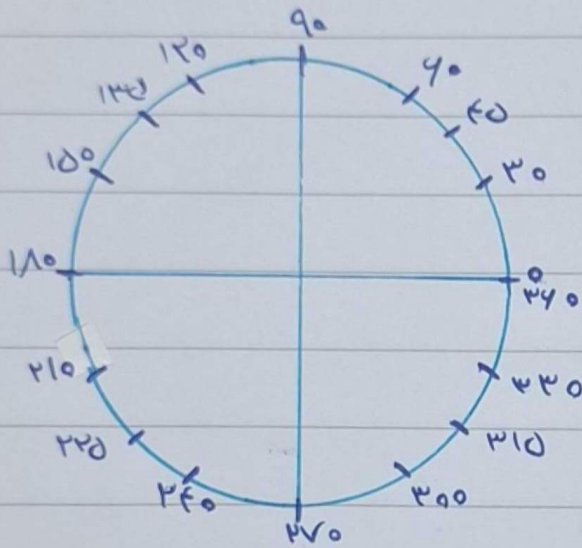
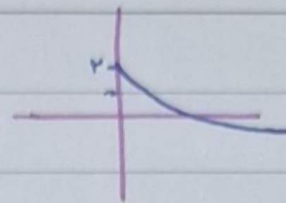


(ص)

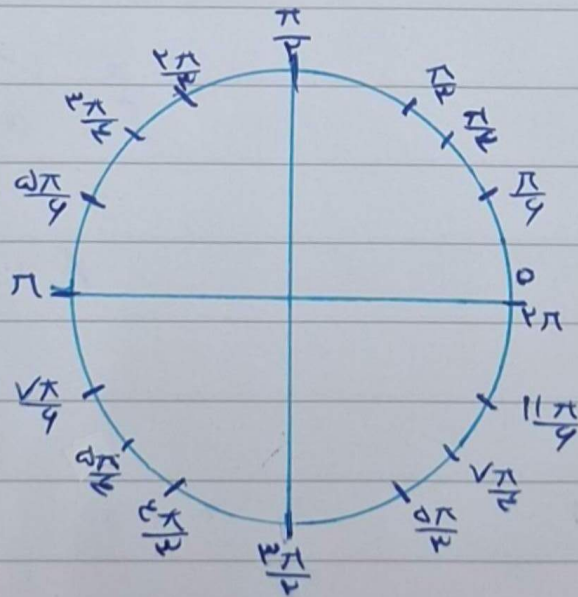
ج 1



د 1



(1)



(9)

الف $-\frac{1}{2}$

ب $\frac{1}{2}$

ج $\frac{1}{2}$

د $-\frac{1}{2}$