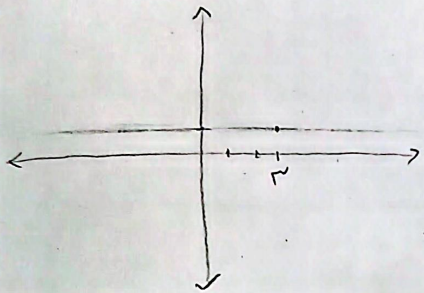
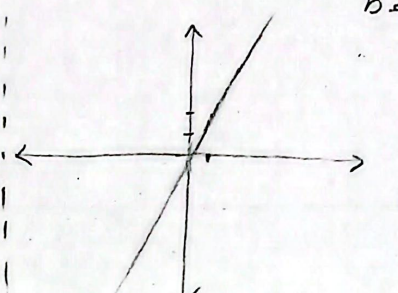
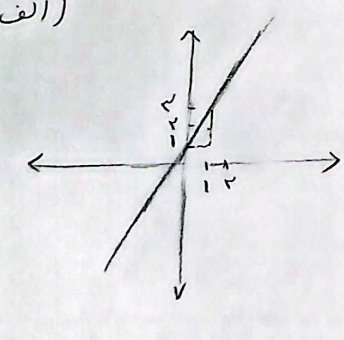
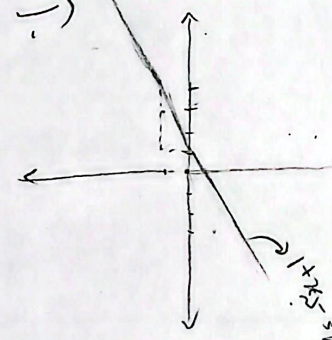
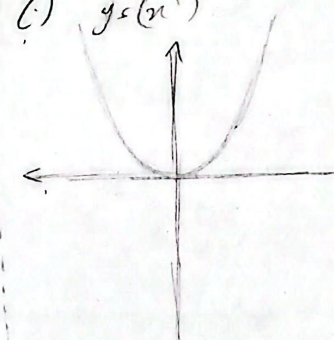
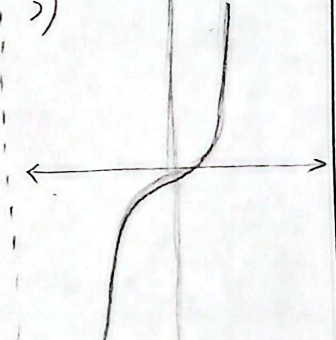
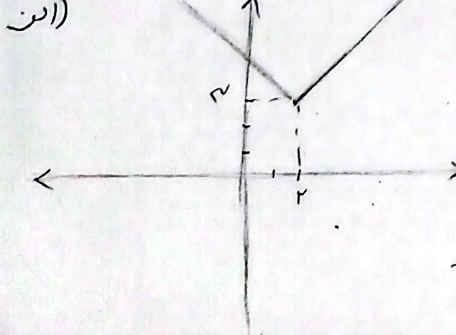
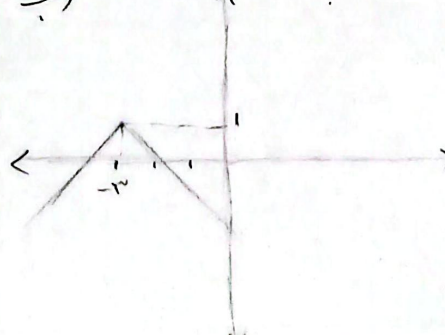


الف) $y^3 - x_1 \leq 2x_1^2$ $\xrightarrow{x_1 = y^3}$ $y^3 \leq y^3$ $y_1 \leq y_2$ تابع مت ب) $y^3 - x_2 \leq 2x_2^2$ $\xrightarrow{x_2 = y^3}$ $y \leq 3$ $y \leq \pm 3$ تابع مت ج) $\rightarrow$ جمع در عدد $\rightarrow$ منفر صفر $\rightarrow$ منفر صفر $y = 2x \rightarrow y = 2$ $x = 4$ تابع مت	د) $x \leq 0$ $\cos y \leq 0$ $y \leq 90^\circ, \frac{\pi}{2}, \frac{3\pi}{2}, \dots$ تابع مت	۱
الف)  $y = 1$	ب) $y = ax + b \rightarrow 2 \leq 2(1) + b$ $b \leq 0$  $y \leq 2x$	۲
الف) $y = x \rightarrow$ همانی $b \leq 0$ $a + \frac{b}{a} = a \leq 1$	ب) $y = x^2 + ax + b$ $\downarrow x=2, y=1$ $1 \leq 4 - 4 + b$ $0 \leq b$ $\text{Min} \begin{cases} \frac{-b}{2a} \leq 2 \\ \frac{-a}{2} \leq 2 \\ a \leq -4 \end{cases}$ $\frac{-\Delta}{4a} \leq 1$ $-4 + 2(0) \leq 4$	۳
الف)  ب)  ج) $y = (x^2)^2$  د) 	۴	
الف)  ب) 	۵	

الف) $\frac{x+4}{x^2-4x}$ $x(x-4) \leq 0$ $x \leq 0$ $x \leq 4$ $D_f = \mathbb{R} - \{4, 0\}$	ب) $\Delta \Rightarrow (-7)^2 - 4(14)(1) = 0$ مخرج همیشه منفرجه $D_f = \mathbb{R}$	ج) $\Delta \Rightarrow (1)^2 - 4(\epsilon) \rightarrow 0$ $D_f = \mathbb{R}$	د) $x(x^2 - \epsilon)$ $x \leq 0$ $x^2 \leq \epsilon$ $x \leq \pm \sqrt{\epsilon}$ $D_f = \mathbb{R} - \{0, \pm \sqrt{\epsilon}\}$	6
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الف) $4-x \geq 0$ $4 \geq x$ $x-2 \geq 0$ $x \geq 2$ $D_f = [2, 4]$	ب) $x^2+1 \leq 0$ $x^2 = -1 \rightarrow \text{ع}$ $D_f = \mathbb{R}$	ج) $x-2 \geq 0$ $x \geq 2$ $x-\epsilon \leq 0$ $x \leq \epsilon$ $D_f = [2, +\infty) - \{\epsilon\}$	د) $ x + x^2 \neq 0$ $\oplus \quad \oplus$ $x \leq 0$ $D_f = \mathbb{R} - \{0\}$	7
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$\cos \frac{2\pi}{3} = -\frac{1}{2} \xrightarrow{\text{قرینه}} \frac{1}{2} \quad \sin x = \frac{1}{2} \rightarrow \boxed{\frac{5\pi}{6}, \frac{\pi}{6}} \rightarrow \text{الف}$	10.
$\text{ب) } \cos \frac{11\pi}{6} = \frac{\sqrt{3}}{2} \xrightarrow{\text{قرینه}} -\frac{\sqrt{3}}{2} \quad \sin x = -\frac{\sqrt{3}}{2} \rightarrow \boxed{\frac{4\pi}{3}, \frac{5\pi}{3}}$	