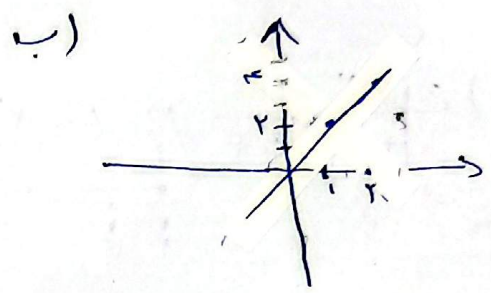
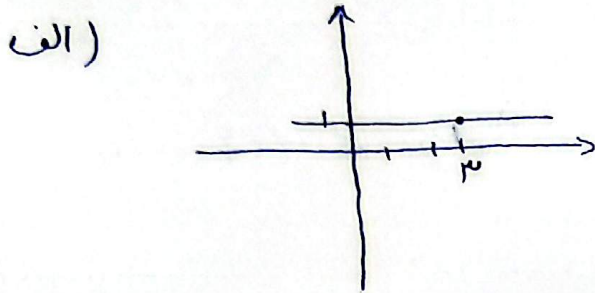


الف) $x=0 \rightarrow y^3-0=2(0)^2 \rightarrow y^3=0 \rightarrow y_1=y_2=y_3=0$
 ب) $x=0 \rightarrow |y|+0=0+3 \rightarrow |y|=3 \rightarrow y=\pm 3 \rightarrow x$ تابع
 ج) $x=0 \rightarrow 0=\cos y \rightarrow y=\frac{\pi}{2}+2k\pi$ و $\frac{3\pi}{2}+2k\pi$ $\in [0, 2\pi) \rightarrow x$ تابع

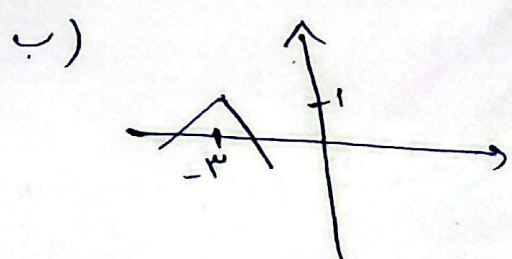
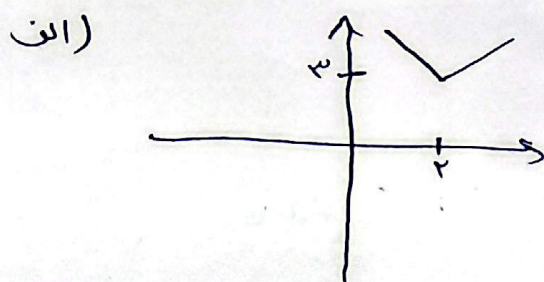
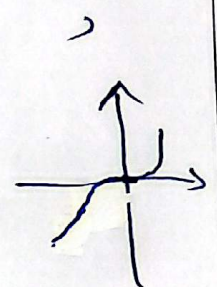
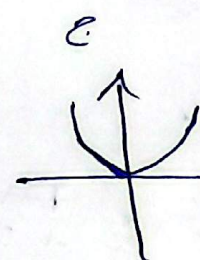
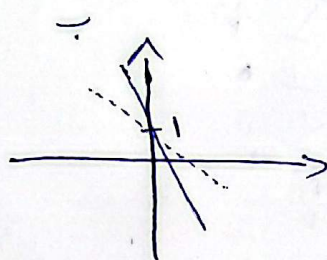
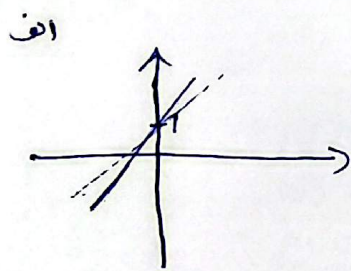
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الف) $y=ax+b=x \rightarrow b=0, a=1 \rightarrow a+2b=1$

ب) $r=\frac{-b}{a} \rightarrow 1=\frac{-b}{a} \rightarrow 1=\frac{-b}{a} \rightarrow -b=a \rightarrow b=-a$
 $a+2b=1 \rightarrow a+2(-a)=1 \rightarrow a-2a=1 \rightarrow -a=1 \rightarrow a=-1$
 $b=-a \rightarrow b=1$
 $y=-x+1$



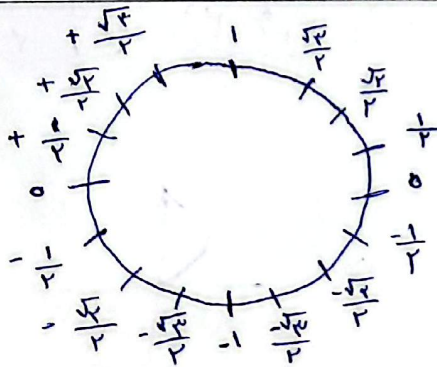
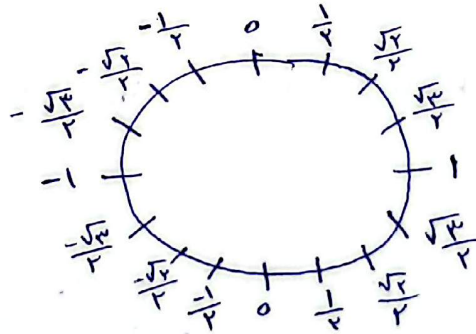
الف) $D_f = \mathbb{R} - \{0\}$
لأن $x \neq 0$

ب) $\frac{v \pm \sqrt{49 - 4 \cdot 4}}{2a} \rightarrow D_f = \mathbb{R}$

ج) $\Delta = \text{منفي} \rightarrow D_f = \mathbb{R}$ د) $D_f = \mathbb{R} - \{ \pm 2 \}$

الف) $\frac{x}{x^2 - 4} = \frac{x}{(x-2)(x+2)}$ $D_f = [2, 4]$ ب) $D_f = \mathbb{R}$

ج) $x - 2 \geq 0$
 $x \geq 2$ $D_f = [2, \infty) \cup (-\infty, 4)$ د) $D_f = \mathbb{R} - \{0\}$



الف) $-(\cos \frac{\pi}{4}) = \frac{1}{\sqrt{2}} \rightarrow \sin 2k\pi + \frac{\pi}{4} = \sin 2k\pi + \frac{\pi}{4}$

ب) $-(\cos \frac{11\pi}{4}) = \frac{\sqrt{2}}{2} \rightarrow \sin \frac{5\pi}{4} + 2k\pi = \sin \frac{\pi}{4} + 2k\pi$