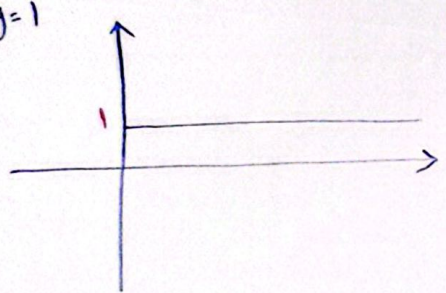
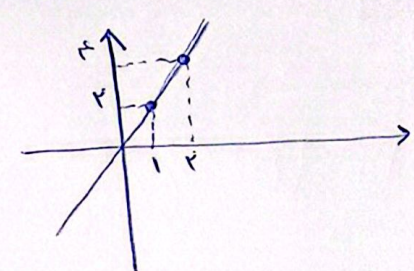
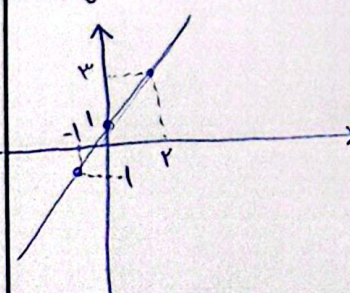
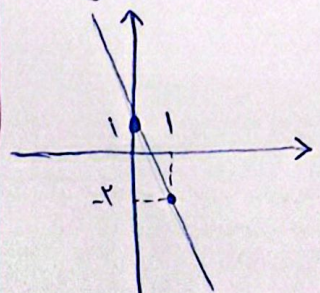
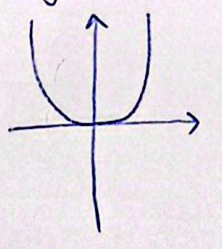
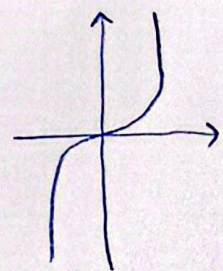
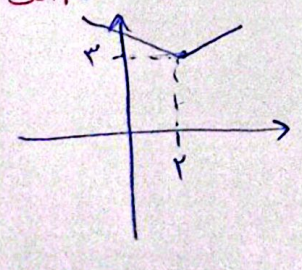
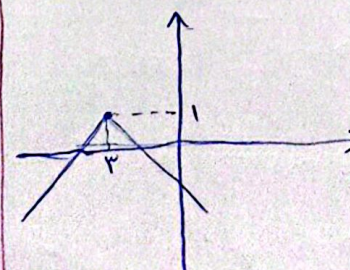
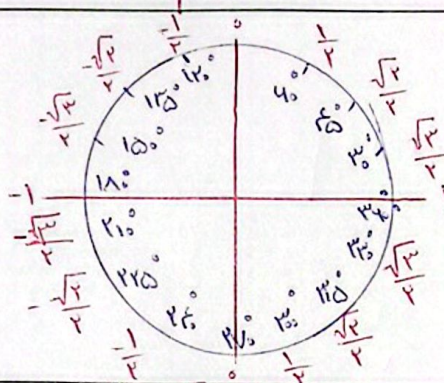
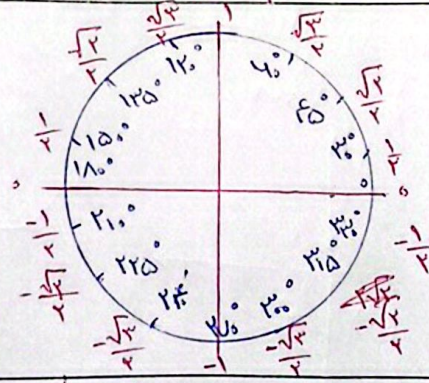


الف) $y = 2x^2 + x$ $\rightarrow \begin{cases} y_1 = \sqrt{2x_1^2 + x_1} \\ y_2 = \sqrt{2x_2^2 + x_2} \end{cases} \xrightarrow{x=x_1} y_1 = y_2$	ب) $x=0 \rightarrow y =3 \rightarrow y=\pm 3$ نام نیست ج) $\sqrt{x-4} + y-2 = 0 \rightarrow x-4=y-2 \Rightarrow x=2, y=2$ نام است د) $x=0 = \cos y$ $\rightarrow y = \frac{\pi}{2}, \frac{3\pi}{2}$ نام نیست	۱		
الف) $y=1$ 	ب) $y=mx+b / y=2x$ 	۲		
الف) $y=x$ نام است $\rightarrow a=1, b=0$ $\rightarrow 1+2(0)=1$ نام است	ب) Ent: $\begin{vmatrix} -b & -a \\ f_a & f_a \end{vmatrix}$ $\rightarrow \frac{-a}{f} = 2 \Rightarrow a = -4$ $\rightarrow -\frac{(a^2 - 4b)}{f} = 1 \rightarrow \begin{cases} -16 + 4b = 4 \\ b = 5 \end{cases} \Rightarrow -4 + 2(5) = 6$ نام است	۳		
الف) $y=2x+1$ 	ب) $y=-3x+1$ 	ج) $y=x^2$ 	د) $y=x^5$ 	۴
الف) $y= x-2 +3$ 	ب) $y=- x+3 +1$ 	۵		

الف) $y = \frac{x+4}{x(x-4)}$ $\rightarrow D_f = \mathbb{R} - \{0, 4\}$	ب) $y = \frac{x+4}{x^2+x+4} \Rightarrow \Delta = -11$ $\Rightarrow D_f = \mathbb{R}$	ج) $y = \frac{x+4}{x^2+x+4} \Rightarrow \Delta = -3$ $D_f = \mathbb{R}$	د) $y = \frac{x+3}{x^2(x^2-4)}$ مستلماً $\rightarrow x = 0, 2, -2$ $D_f = \mathbb{R} - \{-2, 0, 2\}$	٤
الف) $\frac{2}{-0} + \frac{4}{+0} \rightarrow D_f = [4, 4]$	ب) $y = \frac{x^2+1}{x^2+1} \Rightarrow D_f = \mathbb{R}$ ⊕			
ج) $y = \frac{\sqrt{x-2}}{x-4} \rightarrow x \geq 2$ $x-4 \rightarrow x = \mathbb{R} - \{4\}$ $\rightarrow D_f = [2, +\infty) - \{4\}$	د) $y = \frac{x^2+3}{ x +x^2} \Rightarrow D_f = \mathbb{R} - \{0\}$			٧
				٨
				٩
الف) $\sin x = \cos \frac{\pi}{4}$ $\rightarrow -(-\frac{1}{4}) = \frac{1}{4} = \sin x$ $\rightarrow x = 30, 150$ $\rightarrow x = \frac{\pi}{4}, \frac{5\pi}{4}$	ب) $\sin x = -\cos \frac{11\pi}{4}$ $\rightarrow -\frac{\sqrt{2}}{2} = \sin x$ $\rightarrow x = 210, 30$ $\rightarrow x = \frac{7\pi}{6}, \frac{5\pi}{6}$			١٠