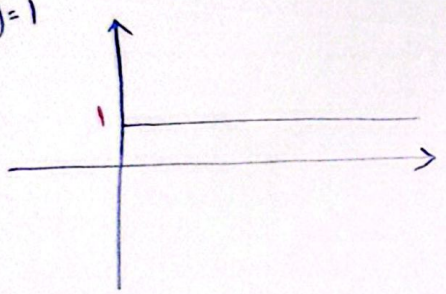
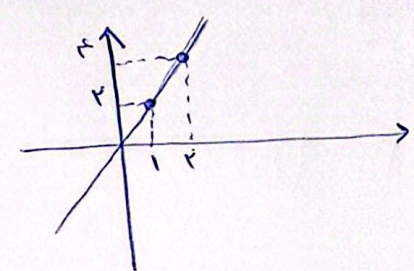
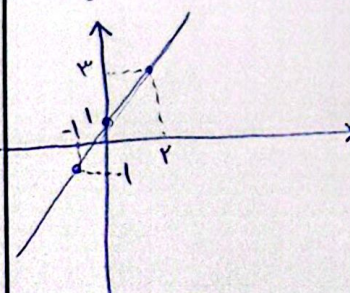
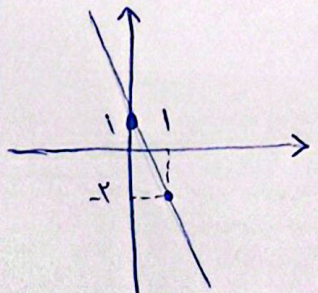
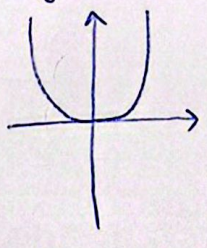
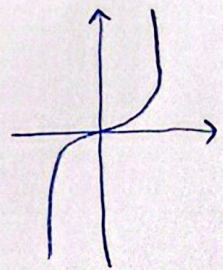
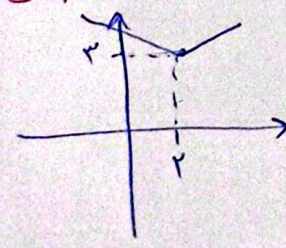
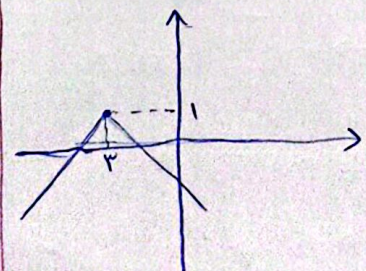
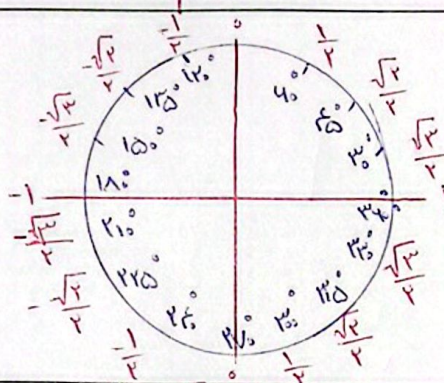
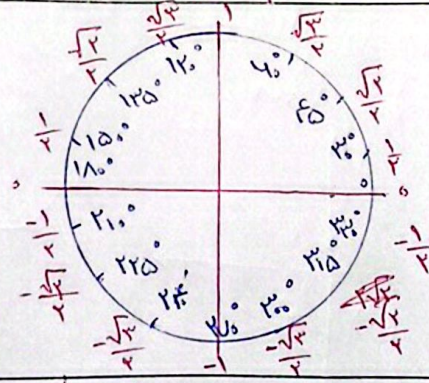


نام و نام خانوادگی (شماره) ۲۵ پاسخنامه تشریحی تکلیف شماره کلاس				
الف) $y = 2x^2 + x$ → $\begin{cases} y_1 = \sqrt{2x_1^2 + x_1} \\ y_2 = \sqrt{2x_2^2 + x_2} \end{cases} \xrightarrow{x=x_1} y_1 = y_2$	ب) $x=0 \rightarrow y =3 \rightarrow y = \pm 3$ نام نیست ج) $\sqrt{x-4} y-2 = 0 \rightarrow x-4 = y-2 \Rightarrow x=4, y=2$ نام است د) $x=0 = \cos y$ → $y = \frac{\pi}{2}, \frac{3\pi}{2}$ نام نیست			
الف) $y=1$ 	ب) $y = ax + b / y = 2x$ 			۲
الف) $y=x$ نام نیست → $a=1, b=0$ → $1+2(0) = 1$ نام نیست	ب) Ent: $\begin{vmatrix} -b & -a \\ f_a & f_b \end{vmatrix}$ → $\frac{-a}{f} = 2 \Rightarrow a = -4$ → $-\frac{(a^2 - 4b)}{f} = 1 \rightarrow \begin{cases} -16 + 4b = 4 \\ b = 5 \end{cases} \Rightarrow -4 + 2(5) = 6$ نام نیست			۳
الف) $y = 2x + 1$ 	ب) $y = -2x + 1$ 	ج) $y = x^2$ 	د) $y = x^5$ 	
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) $y = \frac{x+3}{x^2(x^2-4)}$ مستلما $\rightarrow x = 0, 2, -2$ $D_f = \mathbb{R} - \{-2, 0, 2\}$	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) $y = \frac{\sqrt{x-2}}{x-2} \rightarrow x \geq 2$ $x-2 \rightarrow x = \mathbb{R} - \{2\}$ $\rightarrow D_f = [2, +\infty) - \{2\}$	د) $y = \frac{x^2+3}{ x +x^2} \Rightarrow D_f = \mathbb{R} - \{0\}$			٧
				٨
				٩
الف) $\sin x = \cos \frac{\pi}{4}$ $\rightarrow -(-\frac{1}{\sqrt{2}}) = \frac{1}{\sqrt{2}} = \sin x$ $\rightarrow x = 30, 150$ $\rightarrow x = \frac{\pi}{4}, \frac{5\pi}{4}$	ب) $\sin x = -\cos \frac{11\pi}{4}$ $\rightarrow \frac{-\sqrt{2}}{2} = \sin x$ $\rightarrow x = 210, 30$ $\rightarrow x = \frac{7\pi}{4}, \frac{5\pi}{4}$			١٠