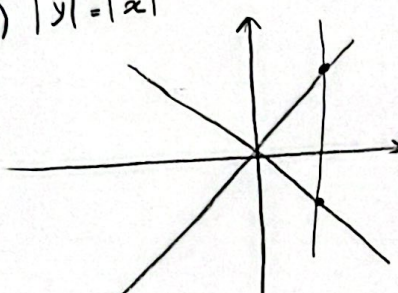
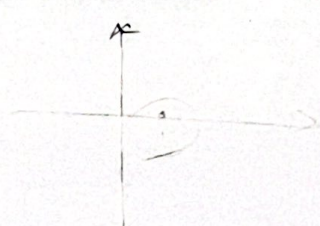
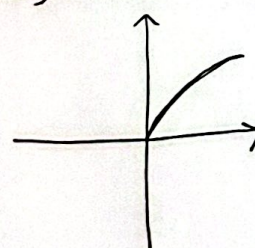
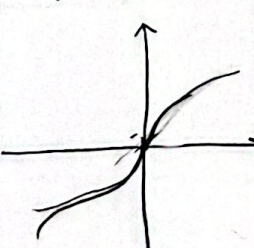
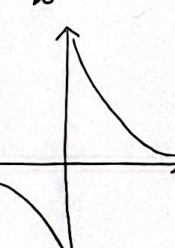
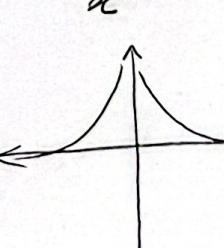
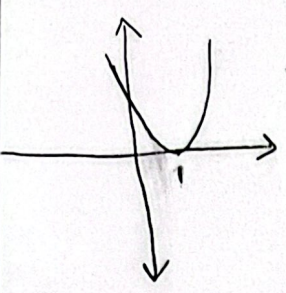
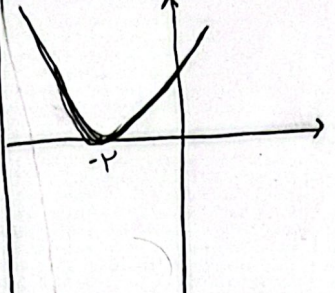
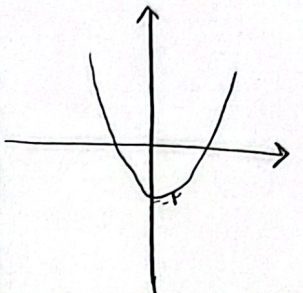
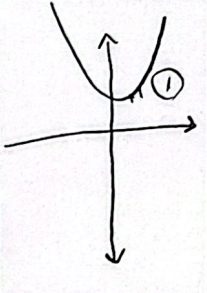
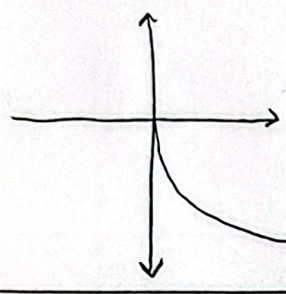
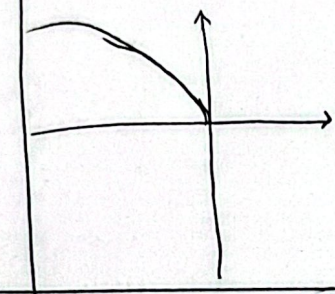
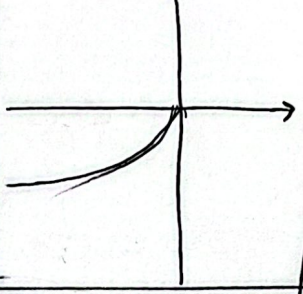
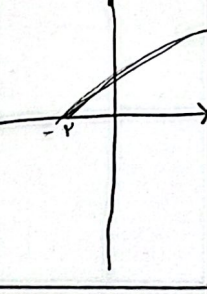
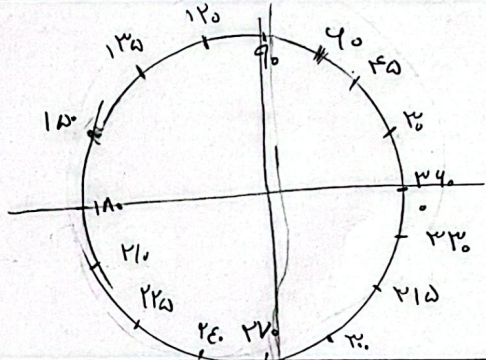
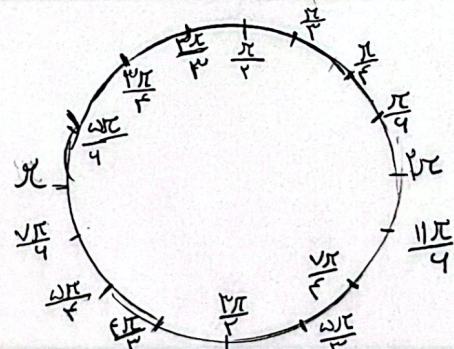


$4a = a^2 + 3$ $4a - a^2 - 3 = 0$ $a^2 - 4a + 3 = 0$ $(a-1)(a-3)$ $a = 1, 3$	۱			
الف) $ y = x $  تابع نیست چون در دو نقطه قطع می شود	ب) $ y + \sqrt{x-1} = 0$  تابع است.	۲		
الف) $ y-1 = \sqrt{x^2-4}$ $x=4$ لا توانه ای ۳- باشد پس تابع نیست	ب) $y^2 = \frac{x^2}{x^2-1}$ $(x=0)$ $y(y^2-1) = 0$ $y = 0, y = 1$ پس تابع نیست	ج) $\sin^2 x + \cos^2 \frac{y}{2} = 1$ $\sin^2 x + \cos^2 0 = 1 \Rightarrow x = 0$ $\sin 0 = 0$ $\cos \frac{y}{2}$ $\begin{pmatrix} 1 \\ -1 \end{pmatrix}$ پس تابع نیست	۳	
الف) $x^2 + x-1 = 4x \Rightarrow x=1 \Rightarrow y-1 = 3$ $y \in [-2, 4]$ پس تابع نیست.				
ب) $y^2 + 2x = 0 \Rightarrow x = 0$ فقط صفر x محور				
الف) $y = \sqrt[4]{x}$ 	ب) $y = \sqrt[5]{x}$ 	ج) $y = \frac{1}{x^2}$ 	د) $y = \frac{1}{x^4}$ 	۵

الف) $y = (x-1)^2$ 	ب) $y = (x+2)^2$ 	ج) $y = x^2 - 2$ 	د) $y = x^2 + 1$ 	6
الف) $y = -\sqrt{x}$ 	ب) $y = \sqrt{-x}$ 	ج) $y = -\sqrt{-x}$ 	د) $y = -\sqrt{x+2}$ 	7
				8
				9
الف) $\cos 120^\circ = -\frac{1}{2}$ ب) $\sin 150^\circ = \frac{1}{2}$ ج) $\cos \frac{4\pi}{3} = -\frac{1}{2}$ د) $\sin \frac{11\pi}{6} = -\frac{1}{2}$				10