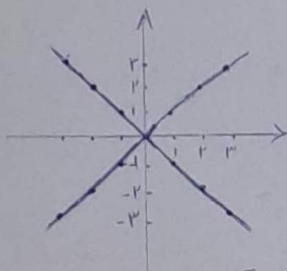
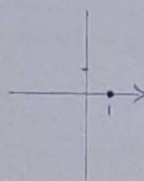
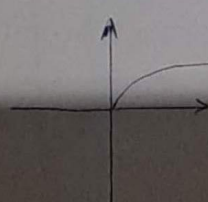
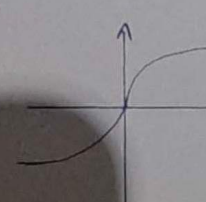
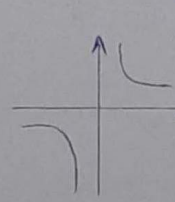
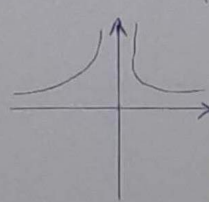
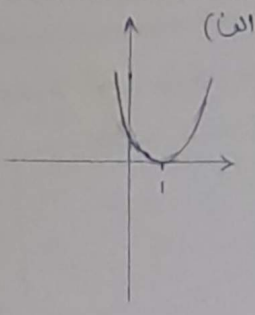
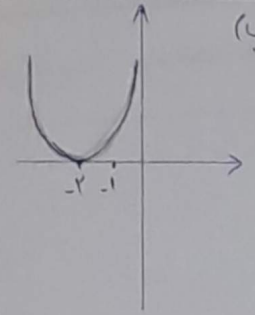
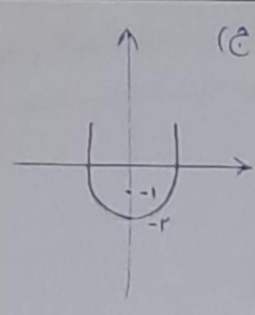
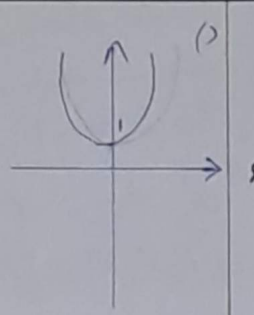
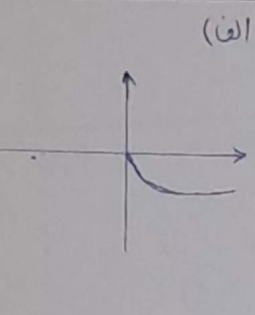
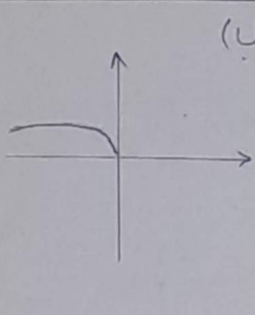
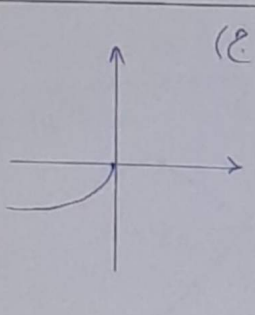
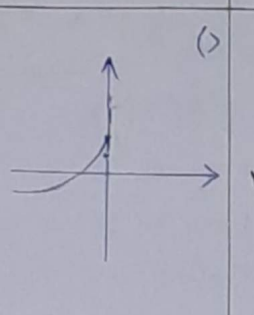
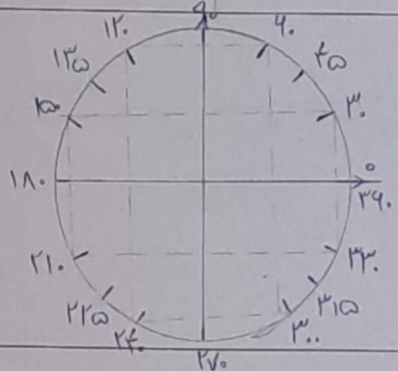
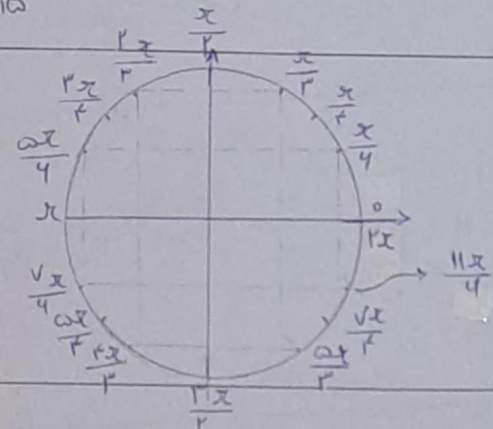


$f_a = a^r + r^r$ $a^r - f_a = -r^r$ $a^r - f_a + r^r = 0$ $(a-1)(a-r^r) = 0 \quad \begin{cases} a = r^r \\ a = 1 \end{cases}$	۱			
$ y = x $ $0 \leftrightarrow 0$ $\pm 1 \leftrightarrow \pm 1$ $\pm 2 \leftrightarrow \pm 2$ $\pm 3 \leftrightarrow \pm 3$  تابع نیست.	$ y + \sqrt{x-1} = 0 \rightarrow y = 0$ $y = 0$ $x-1 = 0$ $x = 1$  تابع هست.	۲		
$ y-1 = \sqrt{x-2}$ (الف) $x=3 \rightarrow y-1 = 1$ $y-1 = \pm 1$ $y = \begin{cases} 2 \\ 0 \end{cases}$ تابع نیست.	$y^2 - y = \frac{x^r}{r}$ (ب) $ry(y^r - 1) = x^r$ $x=0 \rightarrow ry = 0 \rightarrow y = 0$ $y^r - 1 = 0 \rightarrow y = 1$ $y = -1$ تابع نیست.	$\sin^2 x + \cos^2 \frac{y}{r} = 1$ (ج) $x=0 \rightarrow \cos^2 \frac{y}{r} = 1$ $\cos \frac{y}{r} = \pm 1$ $\frac{y}{r} = \begin{cases} 0 \\ 180^\circ \\ 360^\circ \\ \dots \end{cases}$ $y = \begin{cases} 0 \\ 360^\circ \\ \dots \end{cases}$ $2xy = x$ (د) $x=0 \rightarrow y = \dots$ تابع نیست.	۳	
$x^r + y-1 = 4x$ (الف) $x^r - 4x = - y-1 $ $x(x-4) = - y-1 $ $\pm 3 = y-1 \quad \begin{cases} y = 4 \\ y = -2 \end{cases}$ تابع نیست.	$y^2 + 3x = 0$ (ب) $x_1 = x_2 \rightarrow y_1 = y_2 \rightarrow y_1 = y_2$ تابع هست.	۴		
(الف) 	(ب) 	(ج) 	(د) 	۵

				6
				7
				8
				9
$\cos 110^\circ = -\frac{1}{r}$ $\sin 10^\circ = \frac{1}{r}$ $\cos \frac{\omega x}{r} = \frac{1}{r}$				10