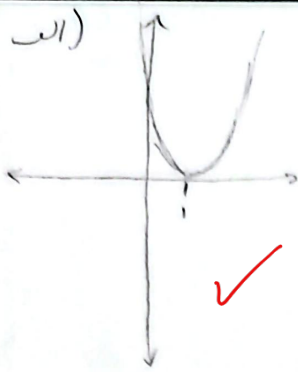
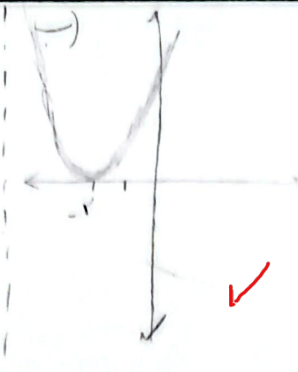
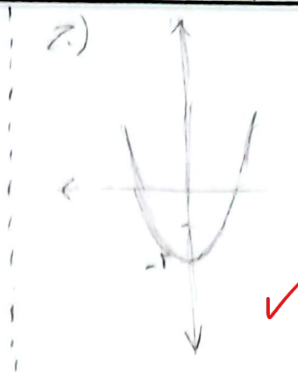
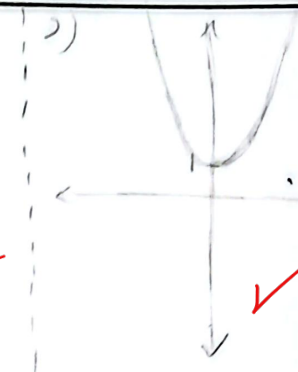
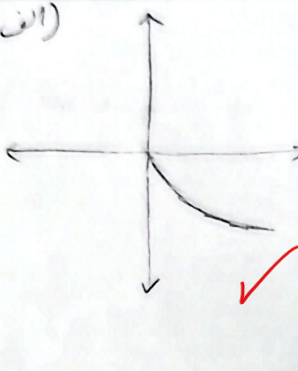
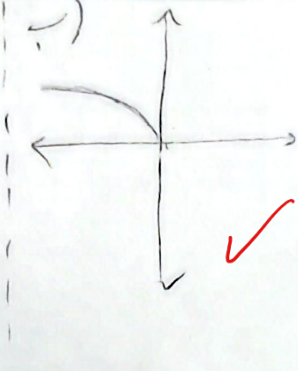
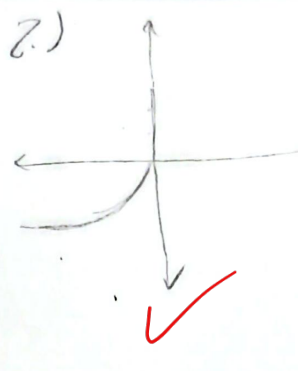
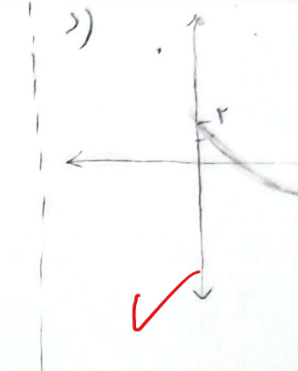
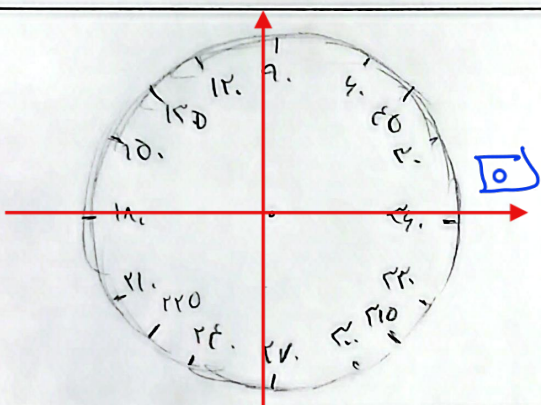
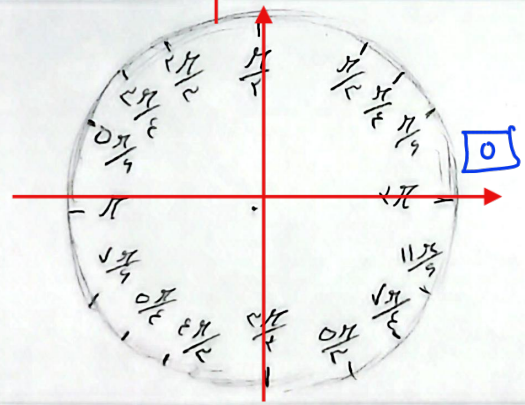


الف)  ب)  ج)  د) 	٢ ٦
الف)  ب)  ج)  د) 	٣ ٧
	١٥ ٨
	١١٥ ٩
الف) $-\frac{1}{3}$ ✓ ج) $\frac{1}{3}$ ✓ ب) $\frac{1}{3}$ ✓ د) $-\frac{1}{3}$ ✓	٢ ١٠

$$a^2 = a^2 + 3$$

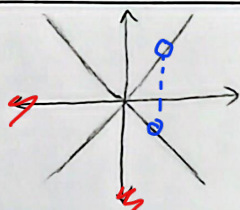
$$a^2 - a^2 + 3 = 0$$

$$(a-1)(a-3) = 0$$

$$\begin{matrix} a \leq 3 \\ a \leq 1 \end{matrix}$$

۲

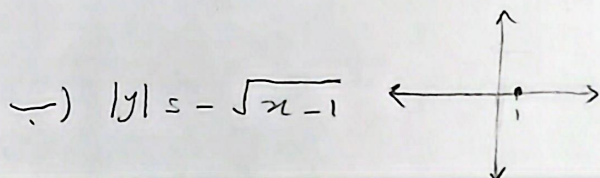
الف)



تابع نیست

تابع هست؟ نیست!

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تابع است

$$|y| = \sqrt{x-1}$$

$$|y-1| \leq \sqrt{x-2} \xrightarrow{x=3} |y-1| \leq 1 \quad y-1 \leq \pm 1$$

$$\begin{matrix} y \leq 2 \\ y \geq 0 \end{matrix}$$

$$y^0 - y^1 = \frac{x^2}{2} \xrightarrow{x=0} y^0 = y \quad \begin{matrix} y \leq 0 \\ y \geq 1 \end{matrix}$$

$$\sin x + \cos^2 y = 1 \xrightarrow{x=0} \cos^2 y = 1 \quad \text{آنگاه } y = 0 \text{ و } y = \pi$$

$$2xy \leq x \xrightarrow{x=0} y \leq \frac{x}{2}$$

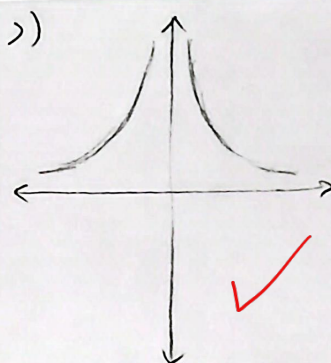
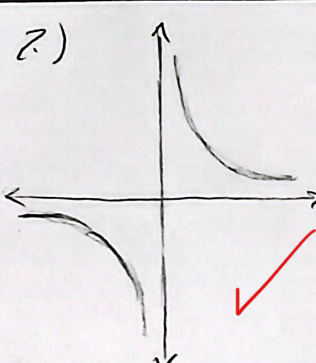
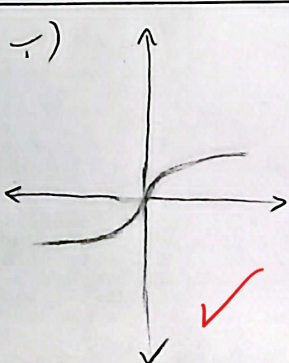
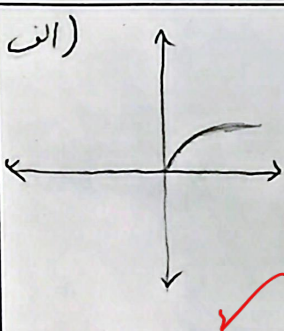
$$|y-1| \leq 3 \quad y-1 = \pm 3 \rightarrow \text{تابع نیست}$$

$$x \leq 1$$

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$$y^0 = -3x$$

پاسخ صفر



۲

سوال ۴

برای تابع بودن یا نبودن قرار شد

آن بلد بودیم شکل بکشیم

یا مثال نقض بزنیم (فقط برای نشان دادن تابع نبودن)
تعریف ریاضی

$$\text{تابع هست} \quad y_1^a = y_2^a \Rightarrow y_1 = y_2 \quad \xrightarrow{x_1 = x_2} \begin{cases} y_1^a + 3x_1 = 0 \\ y_2^a + 3x_2 = 0 \end{cases}$$

(ب) $y^a + 3x = 0$
از تعریف ریاضی