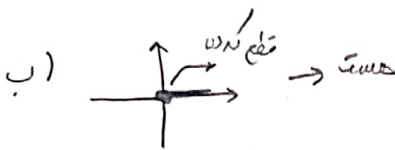
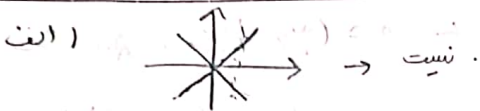


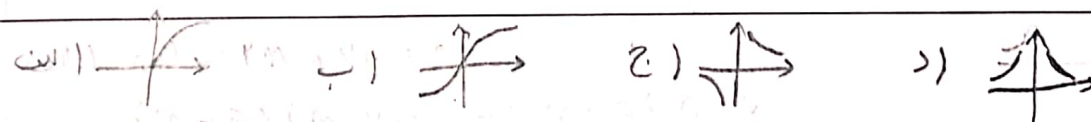
الف) $4a = a^2 + 2 \rightarrow a^2 - 4a + 2 = 0$
 $(a-1)(a-2) = 0$
 $a = 1, a = 2$



الف) $n = 2 \rightarrow |y-1| = 1 \rightarrow y = 2$
 $y-1 = -1 \rightarrow y = 0$
 ب) $n = 0 \rightarrow y^2 - y = 0 \rightarrow y(y-1) = 0 \rightarrow y = 0, y = 1, y = -1$
 ج) $n = 0 \rightarrow \cos^2 \frac{y}{2} = 0 \Rightarrow \frac{y}{2} = \frac{\pi}{2} \rightarrow y = \pi$
 د) $n = 0 \rightarrow y \in \mathbb{R}$

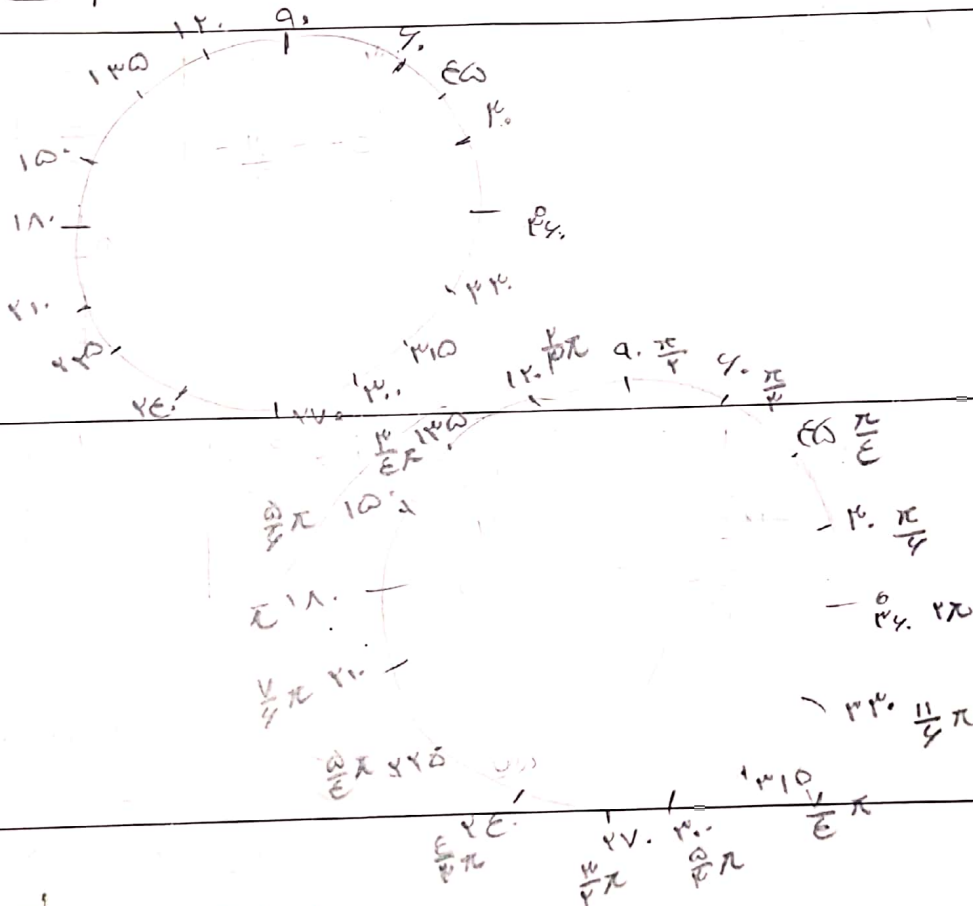
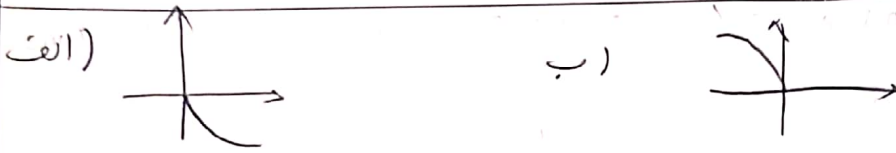
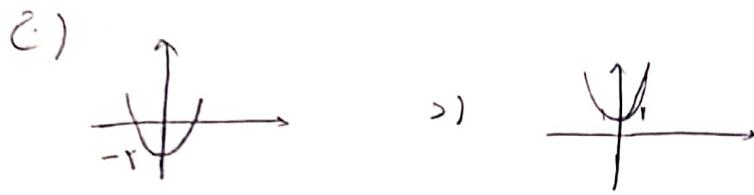
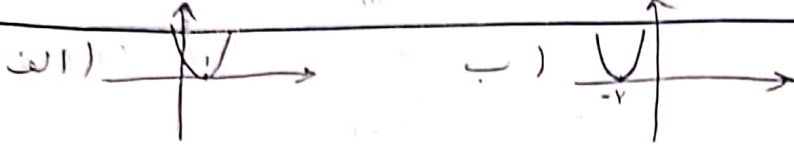
الف) $n = 1 \rightarrow 1 + |y-1| = 2 \rightarrow |y-1| = 1 \rightarrow y-1 = 1 \rightarrow y = 2$
 $y-1 = -1 \rightarrow y = 0$

ب) $\begin{cases} y_1 = -\frac{\pi}{2} \\ y_2 = -\frac{\pi}{2} \end{cases} \Rightarrow y_1 = y_2 \Rightarrow y_1 = y_2$
 Case



ب) $(a-1)(a-2) = 0 \Rightarrow a = 1, a = 2$

ج) $(a-1)(a-2) = 0 \Rightarrow a = 1, a = 2$



الف) $\frac{1}{f}$ ب) $\frac{1}{f}$

ج) $\frac{1}{f}$ د) $-\frac{1}{f}$