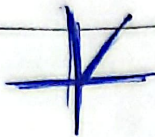


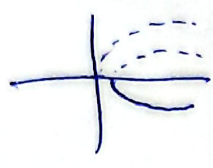
$$fa = a^2 + 4 \rightarrow -a^2 + 4a - 4 = 0 \rightarrow -(a^2 - 4a + 4) = 0$$

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

$$a=1 \quad a=3$$

$$|y| = |x| \rightarrow \text{مسئله}$$


$$|y| + \sqrt{x-1} = 0$$

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


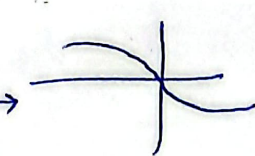
الف) $|y-1| = \sqrt{x-2}$
 $y=2, 0$

ب) $y-y = \frac{x}{y} \rightarrow y-y = 0 \rightarrow y=1, 0$

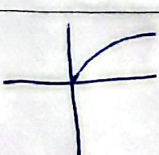
ج) $x=0 \rightarrow \sin z = 1 \rightarrow 1 \rightarrow \cos \frac{y}{2} = 0$
 $y=0, 2\pi$
 $\frac{2\pi}{2} = \pi$

د) $x=0 \rightarrow 0=0 \rightarrow y=R$

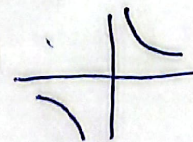
$$x^2 + |y-1| = 4x \rightarrow x=1 \rightarrow |y-1|=3$$

$$y^2 + 3x = 0 \rightarrow y = -\sqrt{3x}$$


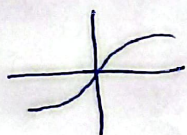
الف) $y = \sqrt{x}$



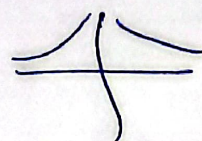
ب) $y = -\sqrt{x}$

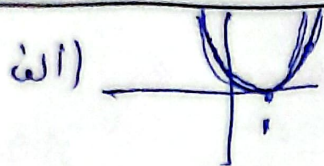


ج) $y = \sqrt{x}$

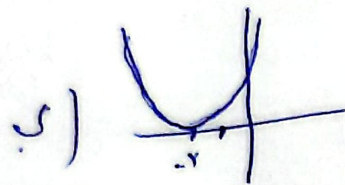
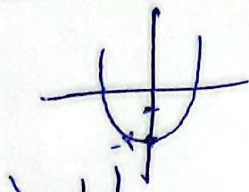


د) $y = -\sqrt{x}$

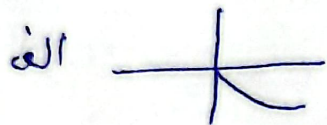
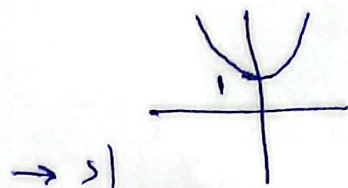
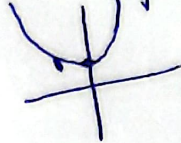




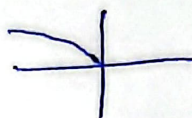
ج.)



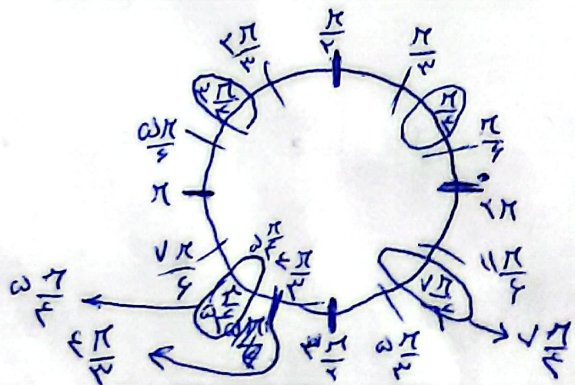
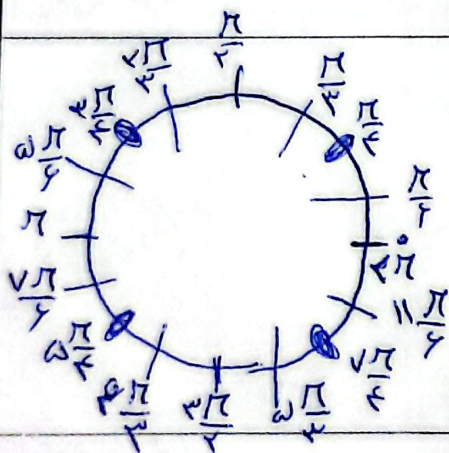
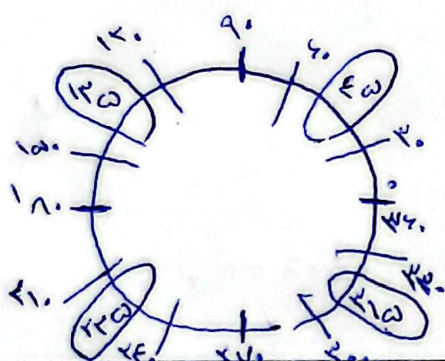
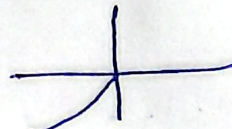
د)



ب)



ج)



الف) $\gamma \rightarrow \frac{1}{r} = \cos$ ب) $\alpha \rightarrow \frac{1}{r} \rightarrow \sin$

ج) $\rightarrow \frac{1}{r} = \frac{1}{r}$ د) $-\frac{1}{r}$