

$$18 - a^2 = 3$$

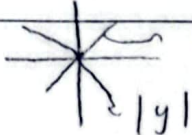
$$a(x - \frac{1}{a}) = 3$$

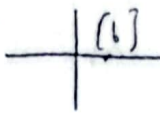
$$a = 1, 2$$

$$[(1, 4), (1, 4), (2, 3)] \quad [(1, 12), (1, 12), (2, 9)]$$

$$\downarrow \quad \downarrow$$

$$[(1, 4), (2, 3)] \quad [(1, 12), (2, 9)]$$

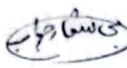
الف) $|y| = |x|$ 

ب) $|y| + \sqrt{x-1} = 0$ 

الف) $|y-1| = \sqrt{x-1}$
 $y = 0, 2$

ب) $y(y-1) = \frac{x-1}{2}$
 $y = 1, 0$

ج) $\cos^2 \frac{y}{2} = 1 \rightarrow \cos \frac{y}{2} = \pm 1$ $\frac{y}{2} = \pi, 2\pi, \dots$
 $y = 2\pi, 4\pi, \dots$

د) $x = 0$ 

الف) $|y-1| = \sqrt{x-2x^2}$
 $y = 2, 0$ $x(x-1) = 0$
 $x = 1$

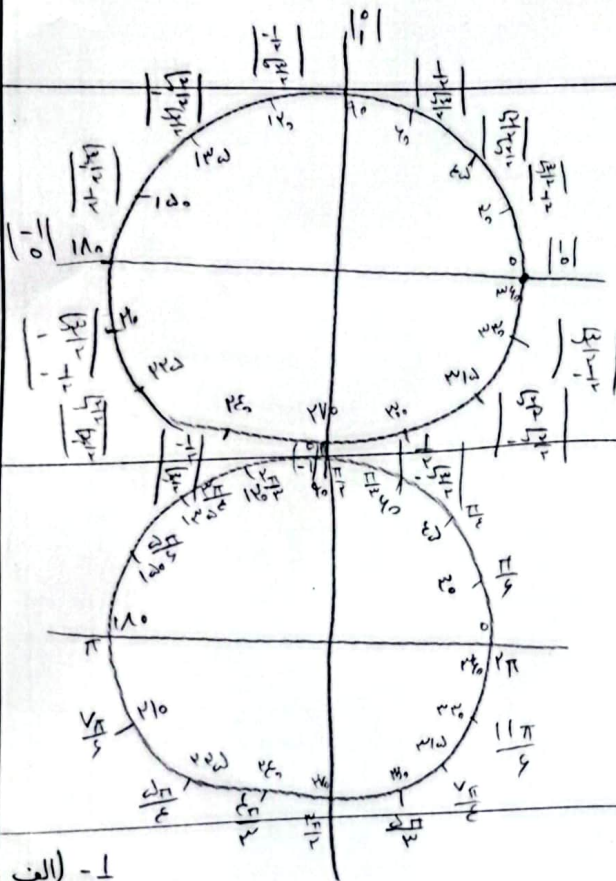
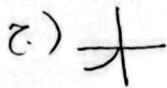
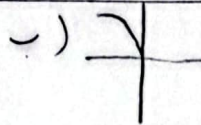
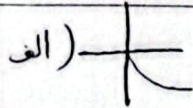
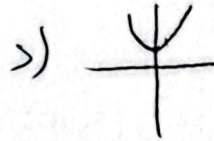
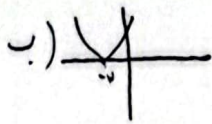
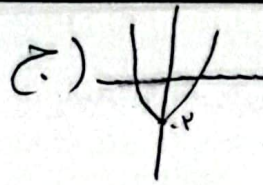
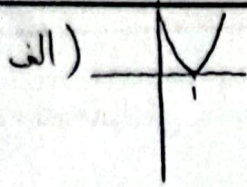
ب) $y^4 = x$ 

الف) $y = \sqrt{x}$ 

ب) $y = \sqrt[3]{x}$ 

ج) $y = \frac{1}{x^2}$ 

د) $y = \frac{1}{x^3}$ 



- الف) $-\frac{1}{4}$
 ب) $\frac{1}{4}$
 ج) $\frac{1}{4}$
 د) $-\frac{1}{4}$