

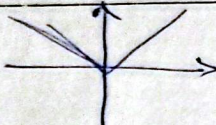
مقادیر ۳ اد

$$L = \{(1, 4a), (1, a^2 + 3), (2, 3a)\} \xrightarrow{a=1} \{(1, 4), (1, 4), (2, 3)\}$$

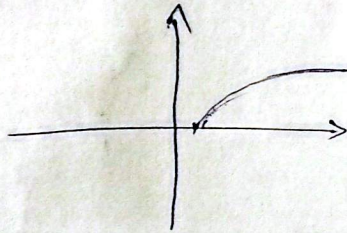
$$\xrightarrow{a=3} \{(1, 12), (1, 12), (2, 9)\}$$

دست آید
چون $a^2 + 3 = 4a$
 $a^2 - 4a + 3 = 0$
 $(a-3)(a-1) = 0$
 $a=3 \quad a=1$

الف) $|y| = |a|$



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



الف) $|y-1| = \sqrt{x-2}$
 $x=2 \rightarrow |y-1| = 0 \rightarrow y=1$
 $|y-1| = 1 \rightarrow y=0$
 $y=2$

ب) $x^2 - y = \frac{x^2}{2}$
 $x=0 \rightarrow y-y=0 \rightarrow y=1$
 $y=0$

ج) $\sin^2 u + \cos^2 \frac{y}{2} = 1$
 $\cos^2 \frac{y}{2} = 1 \rightarrow y=2$
 $y=-2$

د) $\sin y = a$

$x=0 \rightarrow y=0 \rightarrow y=1, 2, 3, \dots$

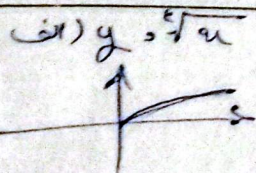
الف) $x^2 + |y-1| = 4$
 $x=1 \rightarrow |y-1| = 3 \rightarrow y=4$
 $y=-2$

ب) $y^2 + 3x = 0$

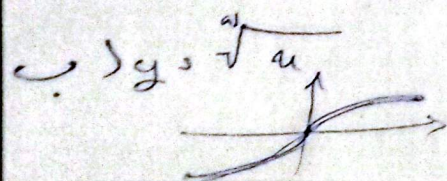
$y_1^2 + 3x_1 = 0$
 $y_2^2 + 3x_2 = 0$
 $x_1 = x_2 \rightarrow y_1^2 + 3x = 0$
 $y_2^2 + 3x_2 = 0$

$\rightarrow y_1^2, y_2^2 = \pm 3x$
 $\rightarrow x_1, x_2 = \sqrt{-3x}$

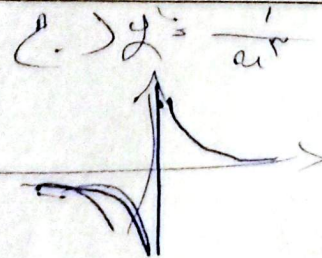
الف) $y = \sqrt{x}$



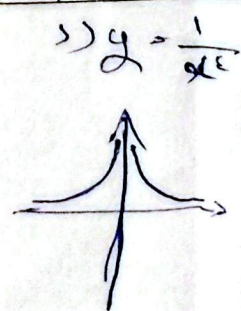
ب) $y = \sqrt{x}$



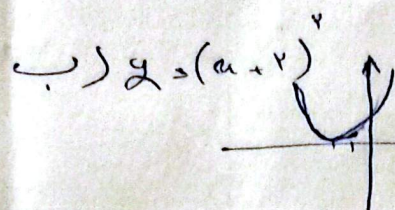
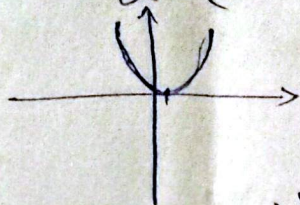
ج) $y = \frac{1}{x^2}$



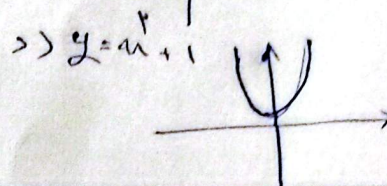
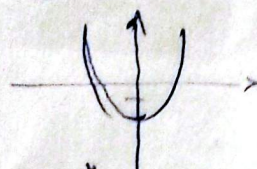
د) $y = \frac{1}{x^2}$



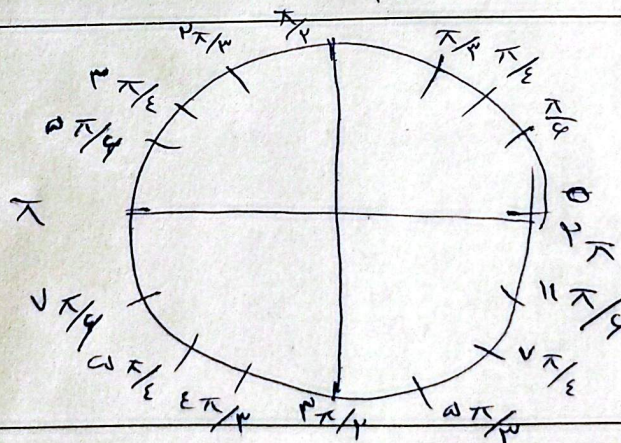
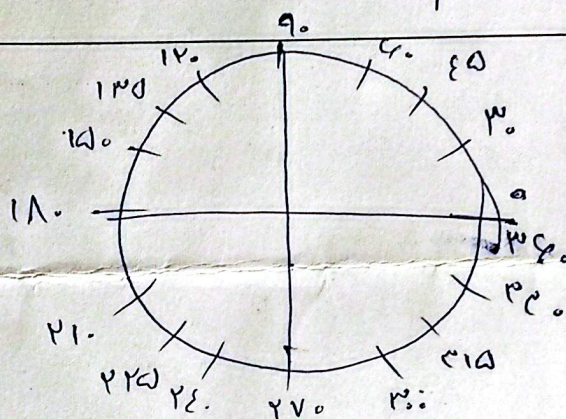
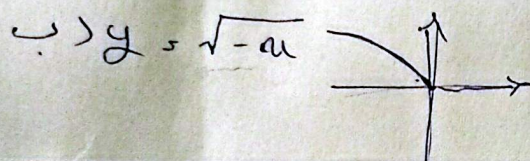
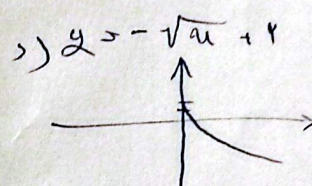
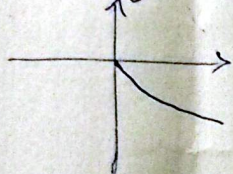
$$\text{الف) } y = (u-1)^2$$



$$\text{ج) } y = u^2 - 2$$



$$\text{الف) } y = -\sqrt{u}$$



$$\text{الف) } \cos 14^\circ = \frac{1}{2}$$

$$\text{ج) } \cos \frac{\pi}{3} = \frac{1}{2}$$

$$\text{ب) } \sin 14^\circ = \frac{1}{2}$$

$$\text{د) } \sin \frac{11\pi}{6} = \frac{1}{2}$$