

مقادیر ۳ اد

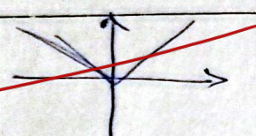
$$L = \{(1, 4a) \wedge (1, a^2 + 3) \wedge (2, 3a)\} \xrightarrow{a=1} \{(1, 4) \wedge (1, 4) \wedge (2, 3)\}$$

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

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

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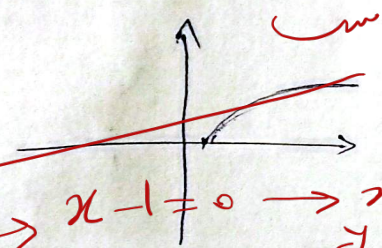
الف) $|y| = |a|$



$y = \pm x$

تایید است

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



$x-1=0 \rightarrow x=1$
 $y=0$

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

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

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

د) $\sin y = a$
 $a=0 \rightarrow y=0 \text{ or } y=\pi \rightarrow y=1, 2, 3, \dots$

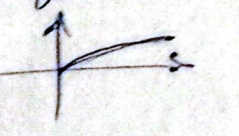
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الف) $x^2 + |y-1| = 4a$
 $a=1 \rightarrow |y-1| = 3 \rightarrow y=4$
 $y=-2$

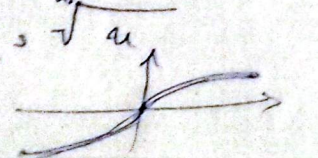
ب) $y^2 + 3x = 0$
 $y_1^2 + 3x_1 = 0$
 $y_2^2 + 3x_2 = 0$
 $\frac{x_1 = x_2}{y_1^2 + 3x_1 = 0} \rightarrow y_1^2 + 3x_1 = 0$
 $\rightarrow y_1^2 + y_2^2 = \pm 3x_1$
 $\rightarrow x_1 = x_2 = \sqrt{3-x_1}$

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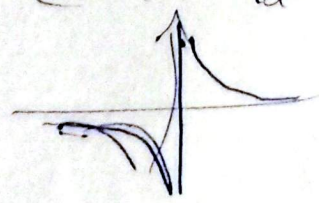
الف) $y = \sqrt{x}$



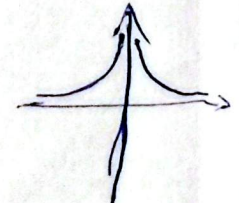
ب) $y = \sqrt{x}$



ج) $y = \frac{1}{x^2}$

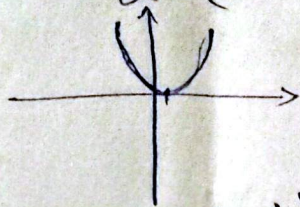


د) $y = \frac{1}{x^2}$

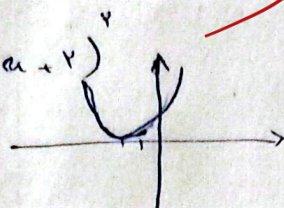


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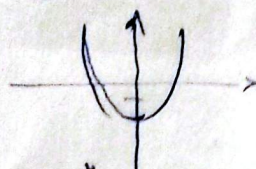
الف) $y = (x-1)^2$



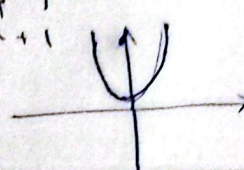
ب) $y = (x+2)^2$



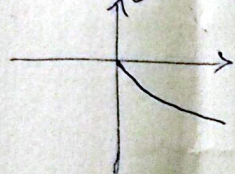
ج) $y = x^2 - 2$



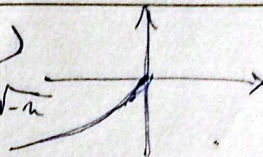
د) $y = x^2 + 1$



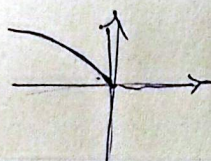
الف) $y = -\sqrt{x}$



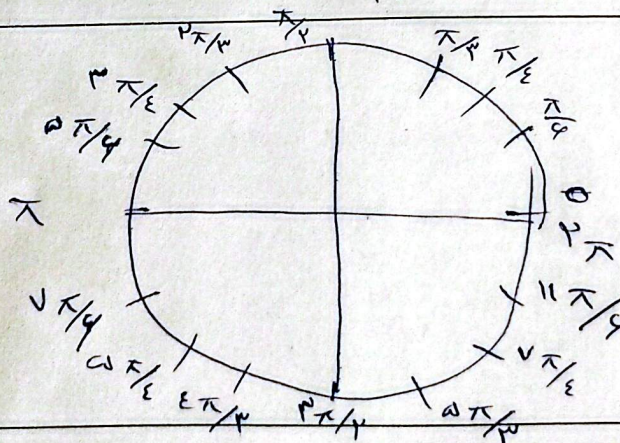
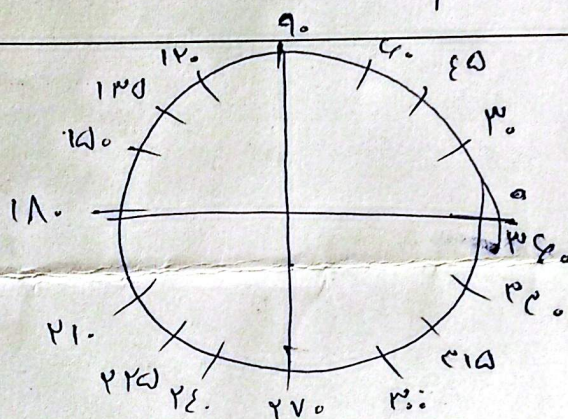
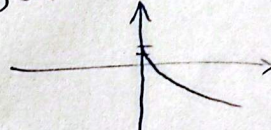
ج) $y = -\sqrt{-x}$



ب) $y = \sqrt{-x}$



د) $y = -\sqrt{x} + 2$



الف) $\cos 14^\circ = \frac{1}{2}$

ج) $\cos \frac{\pi}{3} = \frac{1}{2}$

ب) $\sin 14^\circ = \frac{1}{2}$

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