

f. $\{(1, 2), (2, 3), (3, 4)\}$

$f(x) = x^2 + 1$

$1 - 4 = -3 \neq 0$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-1 \pm \sqrt{1 - 4}}{2} = \frac{-1 \pm \sqrt{-3}}{2}$

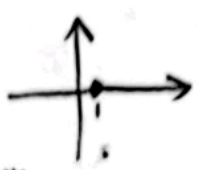
$|y| = |x|$



تابع نیست

الف) تابع نیست

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



تابع هست

ب) تابع هست

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

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

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

د) $2xy = x \Rightarrow y = \frac{1}{2}$

الف) $x^2 + |y-1| = 2x \Rightarrow 1 + |y-1| = 2 \Rightarrow |y-1| = 1 \Rightarrow y-1 = 1 \Rightarrow y = 2$
 $y-1 = -1 \Rightarrow y = 0$

ب) $y^2 + 3x = 0$

$y^2 = -3x$

$y = \pm \sqrt{-3x}$

تابع هست

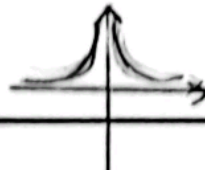
ب) از این فرمول می‌توان دید که x منفی یا صفر باشد

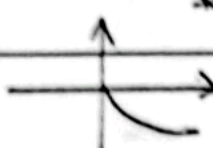
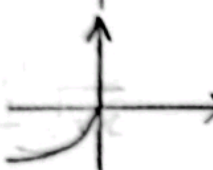
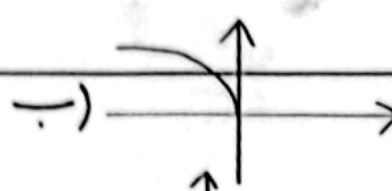
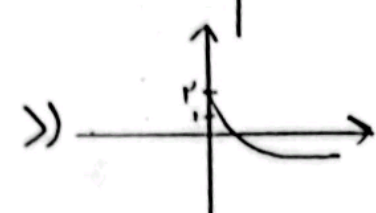
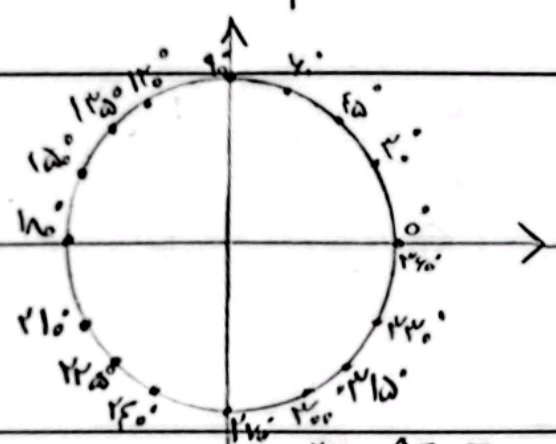
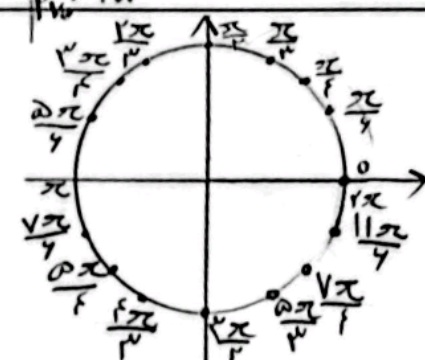
الف) $y = \sqrt{x} \Rightarrow$

ب) $y = \sqrt[3]{x} \Rightarrow$

ج) $y = \frac{1}{x^2} \Rightarrow$

د) $y = \frac{1}{x} \Rightarrow$



الف) $y = (x-1)^2 \rightarrow$  ب) $y = (x+1)^2 \rightarrow$  ج) $y = x^2 - 2 \rightarrow$ 	د) $y = x^2 + 1 \rightarrow$ 	٦
الف)  ج) 	ب)  د) 	٧
	٨	
	٩	
الف) $-\frac{1}{p}$ ب) $\frac{1}{p}$ ج) $\cos(\frac{4\pi}{3}) = \cos 240^\circ = -\frac{1}{2}$ د) $\sin \frac{11\pi}{6} = \sin 330^\circ = -\frac{1}{2}$	١٠	