

تابع است $y^3 = 2x^2 + x$
 $x=1 \quad y^3 = 3 \quad y = \sqrt[3]{3}$

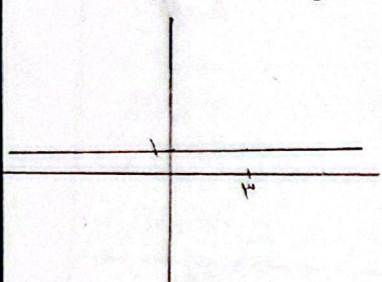
ب) $|y| = -x^2 + x + 3$
 $x=1 \quad |y| = -1 + 1 + 3$
 $|y| = 3 \quad y = \pm 3$ تابع نیست

ج) $\sqrt{x-4} + |y-2| = 0$
 نامنفی نامنفی
 $x-4=0 \quad x=4 \quad y-2=0 \quad y=2 \quad \left[\begin{smallmatrix} 4 \\ 2 \end{smallmatrix} \right]$

د) $x = \cos y$
 $x=0 \quad \cos y = 0 \rightarrow \left\{ \frac{\pi}{2}, \frac{3\pi}{2}, \dots \right\}$ تابع نیست

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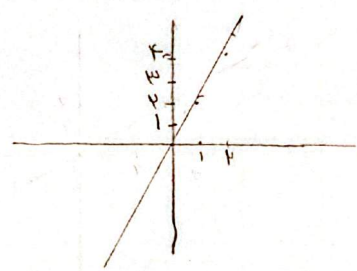
ا) $y=1$ - خط افقی



ب) $y - y_1 = m(x - x_1)$
 $y - 2 = 2(x - 1)$
 $y - 2 = 2x - 2$
 $y = 2x$

x	0	1	2
y	0	2	4

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ا) $a+2b$
 $y=x$ - تابع اصلی
 $a=1, b=0$
 $a+2b = 1+2(0) \quad (1)$

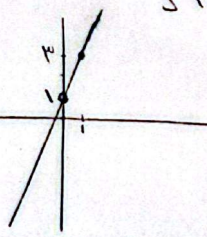
$y = x^2 + ax + b \quad [2]$
 $x_1 = -\frac{a}{2}$
 $2 = -\frac{a}{2} \quad a = -4$
 $1 = 2^2 + (-4 \times 2) + b$
 $1 = -4 + b$
 $b = 5$

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$a+2b = -4+10 = 6$

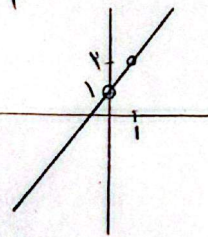
$y = 2x + 1$

x	-1/2	0	1
y	0	1	2

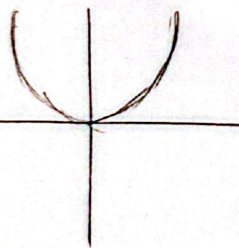


$y = -2x + 1$

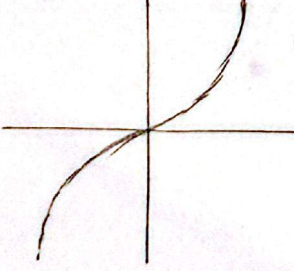
x	0	1	2
y	1	-1	-3



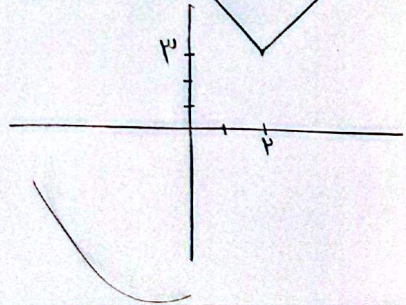
$y = x^2$



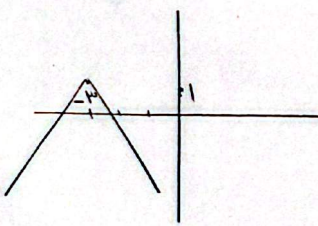
$y = x^3$



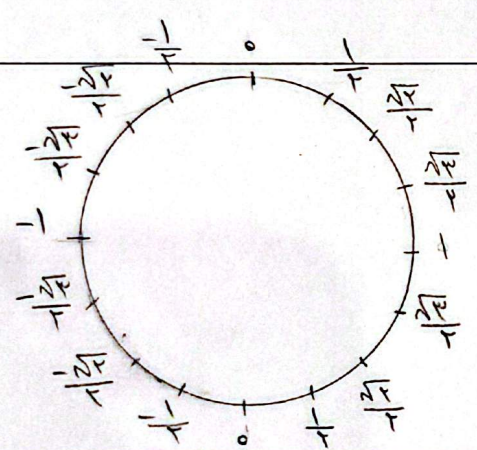
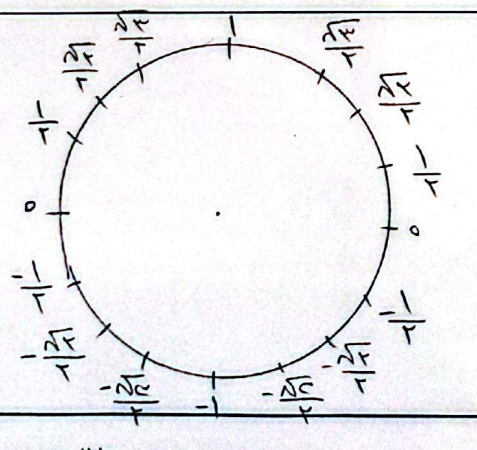
$y = |x-1| + 3$



$y = -|x+3| + 1$



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$y = \frac{n+\varepsilon}{n^2-\varepsilon n}$ $n^2-\varepsilon n \neq 0 \quad n \neq \{0, \varepsilon\}$ $n(n-\varepsilon) \neq 0$ $D_f = \mathbb{R} - \{0, \varepsilon\}$ $\star D_f = (-\infty, 0) \cup (0, \varepsilon) \cup (\varepsilon, +\infty)$	$y = \frac{n+\varepsilon}{n^2-\sqrt{n}+14}$ $n^2-\sqrt{n}+14 \neq 0$ $\Delta = b^2-4ac$ $\Delta = 4 - 4\varepsilon = -12$ $\Delta < 0$ $\star D_f = \mathbb{R}$	$y = \frac{n+\varepsilon}{n^2+n+\varepsilon}$ $n^2+n+\varepsilon \neq 0$ $\Delta = b^2-4ac$ $\Delta = 1-4\varepsilon = -12$ $\star D_f = \mathbb{R}$	$y = \frac{n+\varepsilon}{n\varepsilon-\varepsilon n^2}$ $n\varepsilon-\varepsilon n^2 \neq 0$ $n^2(n-\varepsilon) \neq 0$ $n^2(n-\varepsilon)(n+\varepsilon) \neq 0$ $n \neq \{0, \varepsilon, -\varepsilon\}$ $\star D_f = \mathbb{R} - \{0, \varepsilon, -\varepsilon\}$	6
$y = \sqrt{4-n} + \sqrt{n-2}$ $4-n \geq 0$ $n \leq 4$ $n-2 \geq 0$ $n \geq 2$ $D_f = [2, 4]$	$y = \frac{n^2+1}{n^2+1}$ $n^2+1 \neq 0$ $n^2 \geq 0$ $D_f = \mathbb{R}$	$y = \frac{\sqrt{n-2}}{n-\varepsilon}$ $n-2 \geq 0$ $n \geq 2$ $n-\varepsilon \neq 0 \quad n \neq \varepsilon$ $D_f = [2, \varepsilon) \cup (\varepsilon, +\infty)$	$y = \frac{2n+2}{n(1+n^2)}$ $n(1+n^2) \neq 0$ $n \neq 0$ $D_f = \mathbb{R} - \{0\}$	7
				8
				9
$\cos \frac{4\pi}{9} = -\frac{1}{2}$ $\cos \theta = -\frac{1}{2}$ $\sin \theta = \frac{1}{2} \rightarrow \frac{\pi}{6}, \frac{5\pi}{6}$ $\theta = \frac{\pi}{6} + k\pi$	$\cos \frac{11\pi}{9} = -\frac{\sqrt{3}}{2}$ $\cos \theta = -\frac{\sqrt{3}}{2}$ $\sin \theta = -\frac{\sqrt{3}}{2} \rightarrow \frac{4\pi}{3}, \frac{5\pi}{3}$ $\theta = \frac{4\pi}{3} + k\pi$			10