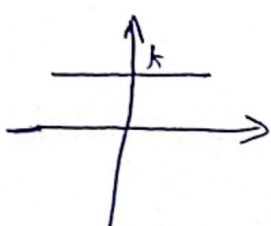
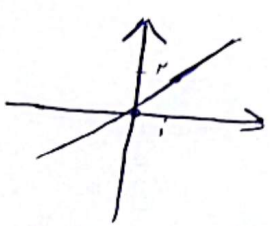
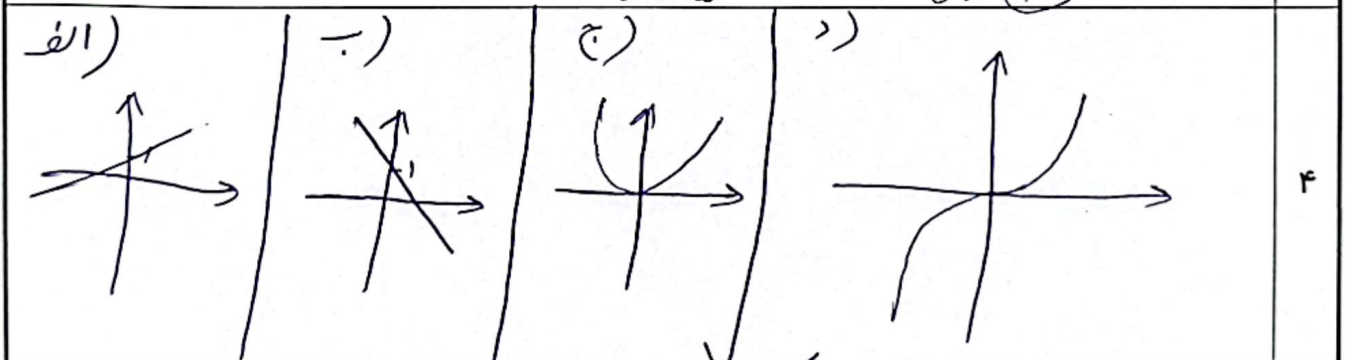
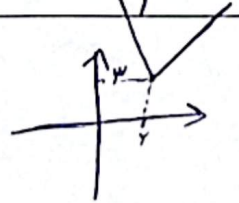
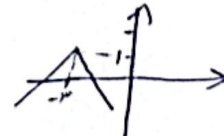


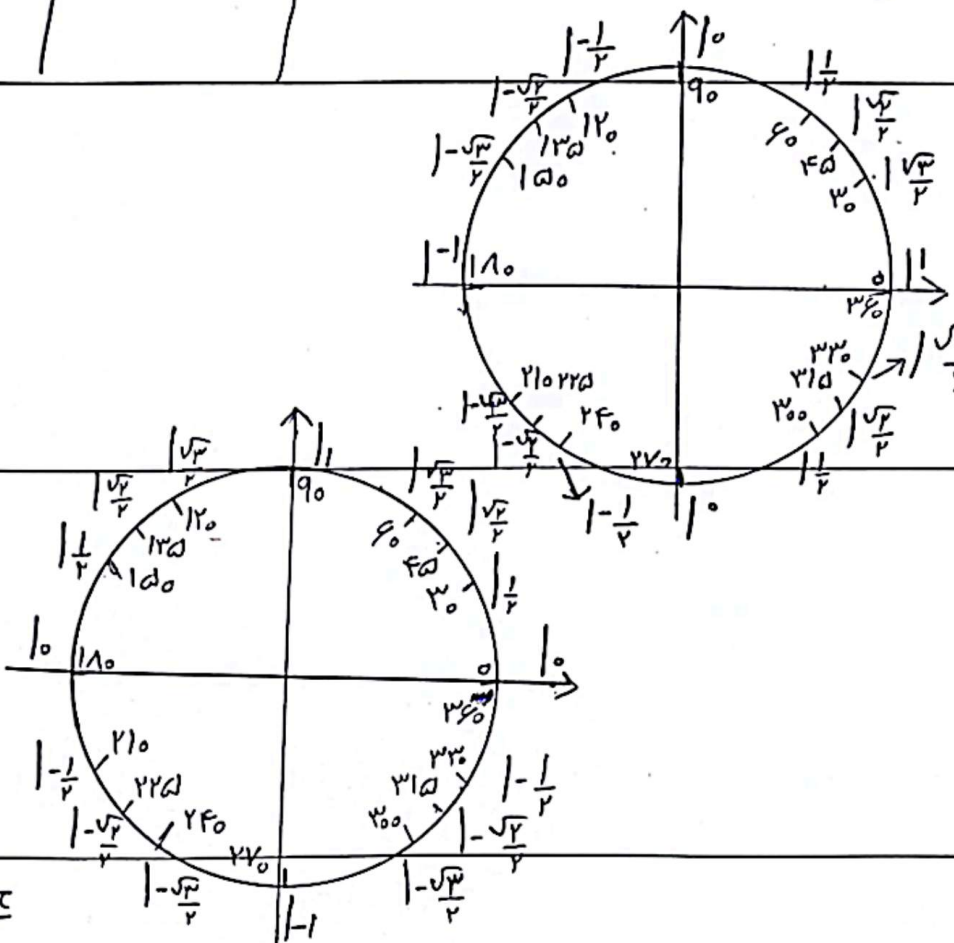
الف) $y^3 - x = 2x^2$ ↓ $y = \sqrt[3]{2x^2 + x}$ $x=1$ $y = \sqrt[3]{3}$ ↑ $(y^3 = 3)$ تابع است	ب) $y = -x^2 + x + 3$ ↓ $x=0$ $y = 3$ $y = -3$ $y = 3$ ↓ تابع نیست	ج) $\sqrt{x-4} \geq 0$ $x-4 \geq 0$ $\sqrt{x-4} = 0 \Rightarrow x=4$ $y-2 = 0 \Rightarrow y=2$ تابع است	د) $x = \cos y$ $0 = \cos y$ ↑ تابع نیست
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الف) $y = k$ 	ب) $y = ax + b$ 	۲
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الف) $a + 2b = x$ ↓ $a=1$ $a + 2b = 1$	ب) $y = (x^2 - 4x + 4) + 1 \rightarrow a = -4$ $b = 5$ $a + 2b = (-4) + 2(5)$ $a + 2b = 6$	۳
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الف) $y = x - 2 + 3 \rightarrow$ 	۵
ب) $y = - x + 3 + 1 \rightarrow$ 	

$\text{د) } x^2 - 4x = 0$ $x(x-4) = 0$ $\Downarrow$ $x=0 \quad x=4$ $D_f = R - \{0, 4\}$	$\text{ب) } x^2 - 4x + 4 = 0$ $(x-2)^2 - 4(1)(1) = -16$ $\Delta < 0$ $D_f = R$	$\text{ج) } x^4 - 4x^2 = 0$ $\Delta = 1^2 - 4(1)(4) = -15$ $\Delta < 0$ $D_f = R$	$\text{د) } x^2(x^2 - 4) = 0$ $x^2 = 0 \Rightarrow x = 0$ $x^2 - 4 = 0 \Rightarrow x = \pm 2$ $D_f = R - \{0, 2, -2\}$	
$\text{د) } 4 - x \geq 0 \Rightarrow x \leq 4$ $x - 2 \geq 0 \Rightarrow x \geq 2$ $2 \leq x \leq 4$ $D_f = [2, 4]$	$\text{ب) } x^2 + 1 = 0$ $x^2 = -1$ $D_f = R$	$\text{ج) } x - 2 \geq 0 \Rightarrow x \geq 2$ $x - 4 \neq 0 \Rightarrow x \neq 4$ $D_f = [2, 4) \cup (4, +\infty)$	$\text{د) } x^2 \geq 0$ $ x \geq 0$ $x = 0$ $D_f = R - \{0\}$	V
				A
$\text{د) } \frac{\pi}{6}, \frac{5\pi}{6}$ $\text{ب) } \frac{4\pi}{3}, \frac{5\pi}{3}$				9
				10