

قسم پر A

تکلیف شماره ۳

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(الف) $x_1 = x_2 \rightarrow x^3 = 0$

تابع هست

(ب) $x = x \rightarrow |x| = 3 \rightarrow x = \pm 3$

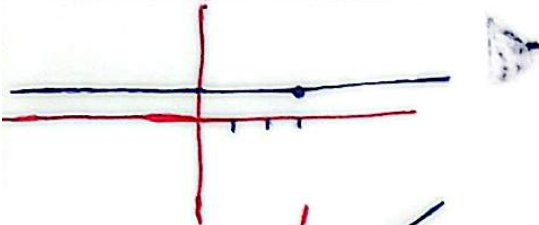
تابع نیست

(ج) $\sqrt{x-4} = -|x-2|$

تابع هست

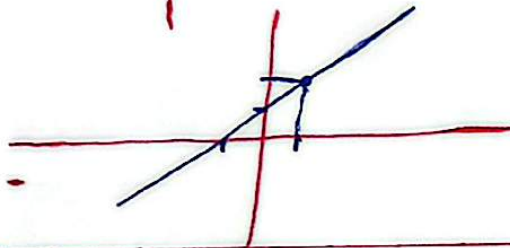
(د) $x = \cos y \rightarrow x_1 = x_2 \rightarrow \cos y = \cos y$

تابع هست



$y = 1$

(الف)



$y = 2x + 2$

(ب)

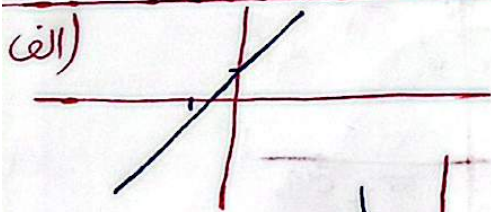
$a = 1, b = 0 \rightarrow y = 1x + 0 \rightarrow y = x \quad 1 + 2(0) = 1$

(الف)

$-\frac{a}{b} = 2 \quad a = -4$

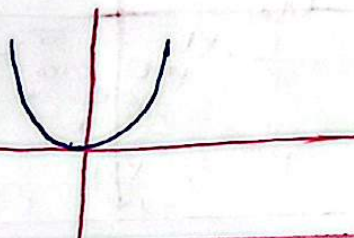
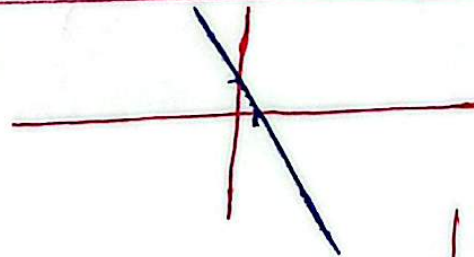
$1 = 2^2 + (-4)(2) + b \rightarrow 4 + 2(5) = 9 \rightarrow b = 5$

(ب)



(الف)

(ب)

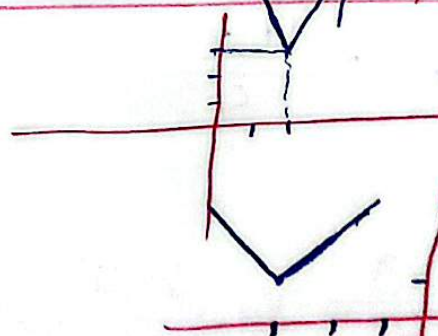


(ج)

(د)



(الف) $y = |x-2| + 3$

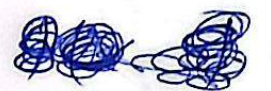


(ب) $y = -|x+3| + 1$

الف) $D_f: \mathbb{R} - \{i, -i\}$

ب)

$D_f = \mathbb{R}$



خرج ریشه ندارد

ج) $D_f: \mathbb{R}$

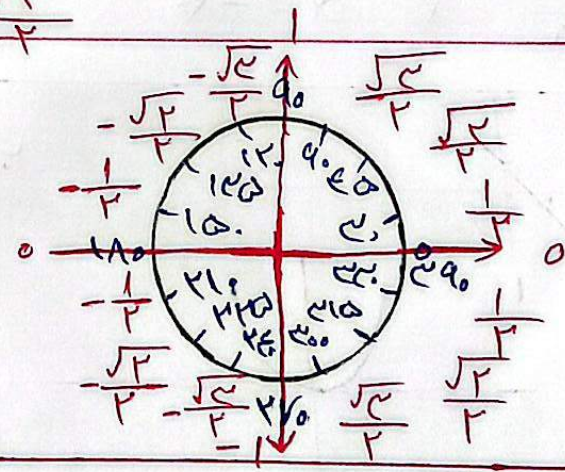
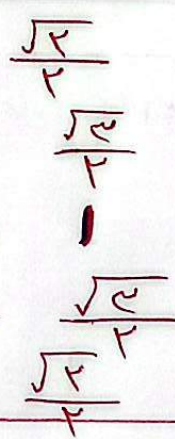
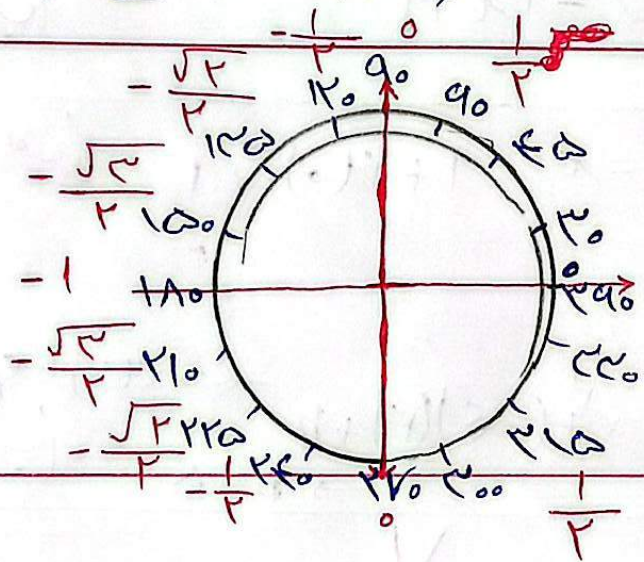
خرج ریشه ندارد

د) $D_f: \mathbb{R} - \{-2, 0, 2\}$

الف) $(-\infty, 4] \cap [2, \infty) = [2, 4]$ ب) $\mathbb{R}$

ج) $[2, 4) \cup (4, \infty)$

د) $\mathbb{R}$



الف) $\frac{\pi}{4}, \frac{11\pi}{4}$

ب) $\frac{5\pi}{4}, \frac{7\pi}{4}$