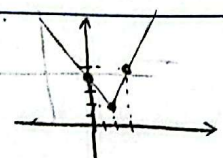
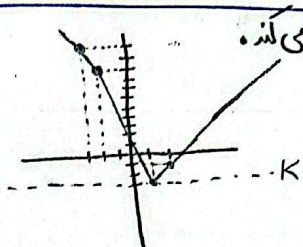


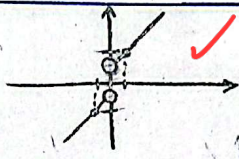
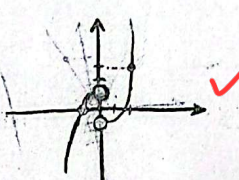
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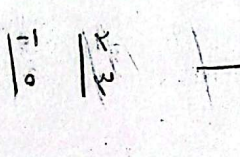
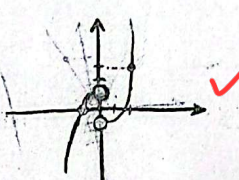
لبیا مین نوروزی - یازدهم پسر B - تکلیف شماره ۷

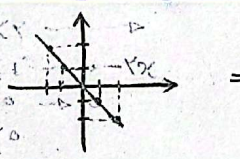
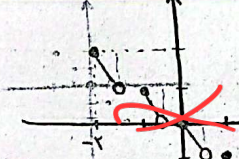
الف) $y = x + |2x - 4|$ $\Rightarrow$ $\begin{vmatrix} 1 & 2 \\ 1 & 2 \end{vmatrix} \begin{vmatrix} 0 & 4 \\ 1 & 2 \end{vmatrix} \Rightarrow R_f = [2, +\infty)$ ✓ 

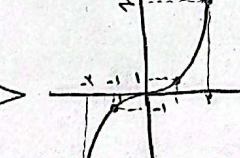
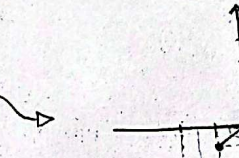
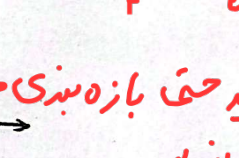
ب) $y = |x - 2| + |x - 1| - |x|$ $\Rightarrow$ $\begin{vmatrix} 1 & 1 & -1 \\ 1 & 1 & -1 \end{vmatrix} \begin{vmatrix} 0 & 2 & 1 \\ 1 & 1 & 0 \end{vmatrix} \Rightarrow R_f = [-1, +\infty)$ ✓ 

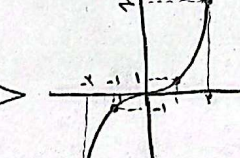
$|3x - 3| - |x + 2| = K$ $\begin{vmatrix} -3 & -2 \\ 1 & 1 \end{vmatrix} \begin{vmatrix} 0 & 3 \\ 1 & 2 \end{vmatrix} \begin{vmatrix} 0 & 3 \\ 1 & 2 \end{vmatrix} \Rightarrow K = -3$ ✓ 

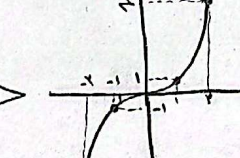
الف) $x < 0 \Rightarrow x - 1$
 $x > 0 \Rightarrow x + 1$  $\begin{vmatrix} -1 & 1 \\ -2 & 2 \end{vmatrix}$ ✓ 

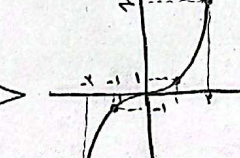
ب) $x < 0 \Rightarrow -x^2 + 1$
 $x > 0 \Rightarrow x^2 - 1$ $\begin{vmatrix} -1 & 1 \\ 0 & 3 \end{vmatrix}$  

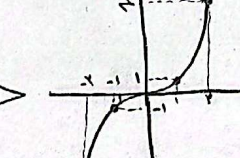
الف) $y = [x] - 2x$ $\Rightarrow$  $\Rightarrow$  

ب) $y = [x] |x|$ $\Rightarrow$  $\Rightarrow$  

الف) $\Rightarrow R_f = [0, 1)$ ✓ 

ب) $\Rightarrow R_f = [0, 4)$ ✓ 

ج) $\Rightarrow R_f = [0, 5)$ ✓ 

د) $\Rightarrow R_f = [-1, 0]$ ✓ 

الف) $\pm \sqrt{9+4} = \pm \sqrt{13} \Rightarrow R_f = [-\sqrt{13}, \sqrt{13}]$ ✓ (1, 1.75) ④

ب) $\pm \sqrt{9+16} = \pm 5 \Rightarrow R_f = [-5, 5]$ ✓

2.) $\pm \sqrt{4+25} = \pm \sqrt{29} \Rightarrow [-\sqrt{29}, \sqrt{29}] \Rightarrow R_f = \{-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5\}$ ✓ -4

3.) $\pm \sqrt{1+4} = \pm \sqrt{5} \Rightarrow [-\sqrt{5}, \sqrt{5}] \Rightarrow R_f = [0, \sqrt{5}]$ ✓

الف) $R_f = [-5, 6]$ ✓

ب) $R_f = [\frac{5}{\lambda}, 7]$ ✓ (2) ⑤

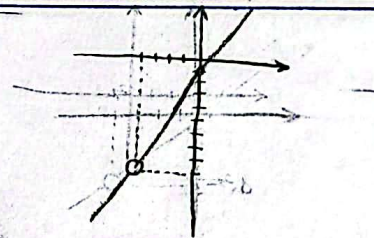
الف) $3\cos^2 x + 1 \Rightarrow R_f = [1, 4]$ ✓ (2) ⑧

ب) $\frac{y \cos x}{\sin x} = y \sin x \cos x = \sin 2x \Rightarrow R_f = [-1, 1]$ ✓

الف) $2^{1-3} \leq \sin^4 x + \cos^4 x \leq 1 \Rightarrow R_f = [\frac{1}{4}, 1]$ ✓ (2) ⑨

ب) $2^{1-4} \leq \sin^4 x + \cos^4 x \leq 1 \Rightarrow [\frac{1}{8}, 1] \Rightarrow R_f = \{0, 1\}$ ✓

الف) $\frac{-7 \pm \sqrt{49+324}}{4} \Rightarrow \frac{2(x-\frac{1}{4})(x+4)}{(x+4)} \Rightarrow x \neq -4$
 $\Rightarrow -1-1 = -2 \Rightarrow R_f = \mathbb{R} \setminus \{-4\}$ ✓



ب) $y = \frac{(x-1)(x^2+x+1)}{(x-1)} = (x^2+x+1) \rightarrow \min \left| \frac{-1}{2x} \right| = \frac{1}{2} \Rightarrow R_f = [\frac{3}{2}, +\infty)$ ✓

$-1 = \sqrt{1-4}$

$D = \mathbb{R} - \{1\} \quad f_{(1)} = f_{(-1)} = 3$
 (دالة هين 3 حذف غيبه)

دامنه حتی بایه
 کی فاشود