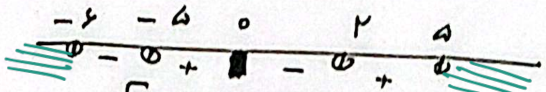
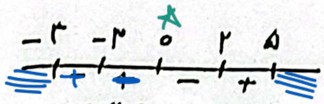
نام و نام خانوادگی ....[illegible]........ پاسخنامه تشریحی تکلیف شماره ..۷.... کلاس .دهم.ریاضی.B........

۱۴٫۵

$x f(x) \geq 0$  $[-5,0] \cup [2,5]$ ✓ ۲	۱
$\frac{-x}{f(x)}$ $f(x) > 0$  $(-3,0)$ $(2,5)$ $f(x) \neq$ ۳،۰،۲،۵ $D_y = (-3,2) - \{0\}$ ۳×۱ صفر ۱٫۵	۲
$f(2) - 2f(2) = 4-6+4$ $-f(2) = 2$ $f(2) = -2$ $f(x) = x^2 - 3x + 4 - 4$ $f(-2) = 4+6$ $f(-2) = 10$ ✓ ۲	۳
$f(f(5)) + f(f(1)) \Rightarrow$ $f(2) + f(5) \Rightarrow$ $7 + 2 = 9$ ✓ $f(1) = 2+3 = 5$ $f(5) = 5 - \sqrt{5+4} = 5-3 = 2$ $f(2) = 4+3 = 7$ ۲	۴
$f(n-1) - f(n) = an^2 - 2an + bn + a + b + 4 - an^2 - bn - 4 = 4n+2$ $-2an = 4n \to a = -2$ $b = 6$ $\to a - b = -8$ ۰	۵

٦ $\frac{(\sqrt{3}-1)(\sqrt{3}+1)+2}{(\sqrt{3}-1)(\sqrt{3}+1)+4} = \frac{3-1+2}{3-1+4} = \frac{4}{6}$ ✓ ②

٧ $\frac{n^2+1}{n^2} = n^2+\frac{1}{n^2} \rightarrow (n-\frac{1}{n})^2 = n^2+\frac{1}{n^2}-2$ ②

$f(n-\frac{1}{n}) = (n-\frac{1}{n})^2+2 \rightarrow f(n) = n^2+2$

$f(-2) = (-2)^2+2 = 6$

٨ (الف) $\{(\sqrt{40},7)(\frac{3}{2},5)(\frac{\sqrt{5}}{4},1)(\frac{5}{2},2)\}$ ✓ ②

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(ب) $\{(\sqrt{40},7)(\frac{2}{3},5)(\frac{\sqrt{5}}{4},1)(2,5)\}$ ✓

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٩ (الف) $\{(1,1)(11,5)(4,3)(2,2)\}$ ✓ ①

(ج) $\{(-3,1)(4,-5)(8,3)(2,3)\}$ ✓

(د) $\{(2,4)(3,9)(-5,14)(1,1)\}$ ✓

(ب) $\{(-3,1)(1,-5)(3,3)(5,2)\}$ ✓

$\{(-5,\frac{1}{4})(\frac{-5}{2},2)(\frac{3}{2},4)(1,1)\}$ ✓

١٠ (الف) $\{(2,3)(2,2)(4,1)\}$ ✓ ②

(ب) $\{(\frac{2}{3},3)(\frac{1}{6},2)(\frac{5}{4},1)\}$ ✓

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