

۱۸, ۲۵

۱۸

پاسخنامه تشریحی تکلیف شماره ۱۸ کلاس ۱۸

نام و نام خانوادگی: حسین حاجی حسینی

$$\begin{aligned} 2g &= \{(-1, 2), (0, 8), (1, 4)\} \\ 2f &= \{(-1, 0), (1, 0), (0, 2)\} \end{aligned} \quad \Rightarrow \quad 2g - 2f = \{(-1, 2), (1, 4), (0, 0)\} \quad \checkmark$$

$$1 - x^2 \geq 0 \Rightarrow x^2 \leq 1 \Rightarrow x \geq -1$$

$$x \leq 1$$

دقت! ۱۱

$$\begin{aligned} R_f &= 4 - 0 \leq 0 \Rightarrow [0, +\infty) \\ R_g &= \frac{1}{2}x^2 + 2 \leq 2 \Rightarrow (-\infty, 0] \end{aligned} \quad \Rightarrow \quad R_f \cup R_g = (-\infty, 0] \cup [0, +\infty) \quad \checkmark$$

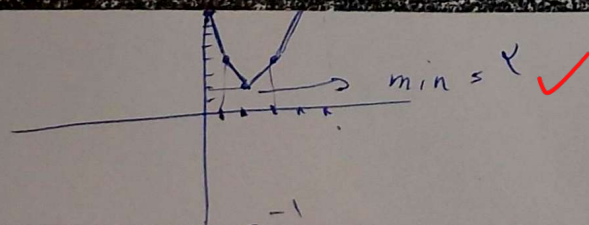
$$-\frac{x^2}{2} + x + 2 = \frac{c}{2} \Rightarrow -x^2 + 2x + 4 = c \Rightarrow x^2 - 2x - 4 + c = 0 \Rightarrow x = \frac{2 \pm \sqrt{4 - 4(-4 + c)}}{2} = 1 \pm \sqrt{5 - c}$$

$$a = c \quad b = -1 \quad c = -4 + c \Rightarrow \sqrt{5 - c} = 1 \Rightarrow c = 4$$

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$$y = |x-1| + |x-2| + |2x-3|$$

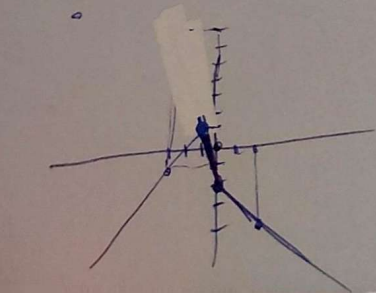
x	y	x	y
1	1 + 1 + 1 = 3	0	1 + 2 + 3 = 6
2	1 + 0 + 1 = 2	1	0 + 1 + 3 = 4
3	2 + 1 + 0 = 3	2	1 + 0 + 1 = 2



$$y = |x| - 2|x+1|$$

x	y
0	0 - 2(1) = -2
-1	1 - 0 = 1
2	2 - 4 = -2
-2	2 - 2(-1) = 4

$$R_f = (-\infty, +1] \quad \checkmark$$



$$g: \frac{n^2 + 0n + m}{n+1} \Rightarrow \frac{(n+1)(n+1)}{(n+1)} = n+1$$

(5, 0)

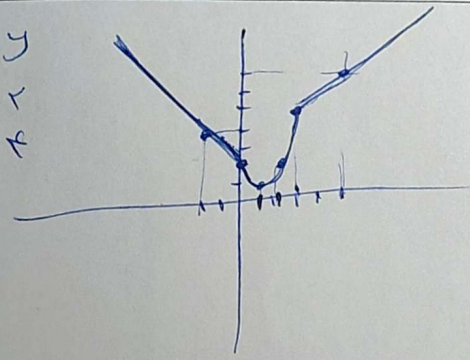
6

$$n^2 + 0n + m = 0 \Rightarrow \Delta \geq 0 \Rightarrow 0 - 4m = 0 \Rightarrow 4, 0 \geq m$$

$$\{0\} \rightarrow \text{عقده} \Rightarrow [1, 2, 3] \checkmark$$

راه حل استبداد
پاسخ نه رو بخون

n	y	n	y	n	y
2	0	0	2	0	2
0	2	1	1	2	2
		2	2		
		2	0		



$$R_f = [1, +\infty) \checkmark$$

(2)

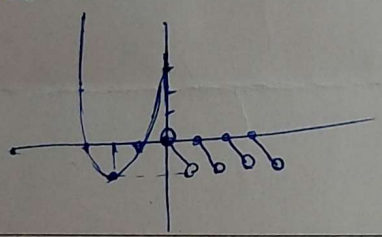
7

$$\begin{cases} n^2 + 2n + 2 & n \leq 0 \\ [n] - 2n & n > 0 \end{cases} \Rightarrow -\frac{b}{2a} = -1 \Rightarrow \begin{cases} -2 = n \\ -1 = y \end{cases}$$

$$(n+1)(n+1)$$

(2)

8



$$R = [-1, +\infty) \checkmark$$

$$R_L = 2n + 2 \geq 0 \Rightarrow 2n \geq -2 \Rightarrow n \geq -1 \Rightarrow b = -\frac{c}{2} \checkmark$$

(2)

9

$$a+1 - 2\sqrt{2n+2} = 0 \Rightarrow a+1 \leq 0 \Rightarrow a = -1 \checkmark$$

$$x - \frac{c}{2} = -4 = ab \checkmark$$

$$R_L = [-1, 1]$$

$$R = [0, \sqrt{2}] \checkmark$$

(2)

$$-1 \rightarrow (\sqrt{2} = f(n)) \Rightarrow \sqrt{2} + g(n) = \sqrt{2} \Rightarrow g(n) = 0$$

$$1 \rightarrow (\sqrt{2} = f(n)) \Rightarrow \sqrt{2} + g(n) = \sqrt{2} \Rightarrow g(n) = 0$$

$$\frac{f(n)}{4} - \frac{g(n)}{c} = ? \quad n = -1 \rightarrow \frac{\sqrt{2}}{4} - \frac{-\sqrt{2}}{c} = \sqrt{2}$$

$$n = 1 \rightarrow \frac{\sqrt{2}}{4} - \frac{\sqrt{2}}{c} = 0$$

10