

نام و نام خانوادگی: سروش اخوان ۲۰ پاسخنامه تشریحی تکلیف شماره ... ۱۱ ... کلاس ... دهم ... پیر B

$$a_n = \frac{n(n+1)}{2} + n(n-1)$$

$$\Rightarrow a_{11} = \frac{11 \times 12}{2} + 11 \times 10 = 66 + 110 = 176$$

$$a_n = \frac{n(n-1)}{2} \quad \frac{n(n-1)}{2} = 66$$

$$\Rightarrow n(n-1) = 132 \Rightarrow n = 12$$

$$a'_1 \rightarrow a_n = 1 + 4n \quad a_{11} = 1 + 4(11) = 45$$

$$a'_2 \rightarrow \text{مجموعه} \rightarrow a_n = 1 + 4n + 4(n-1)$$

$$a_{11} = 1 + 44 + 40 = 85 \quad 85 + 45 = 130$$

$$\text{برترین} \rightarrow n = 2 \Rightarrow a_2 = \frac{1}{2}$$

$$\text{پوچترین} \rightarrow n = 1 \Rightarrow a_1 = -1$$

$$\frac{1}{2} - (-1) = \frac{3}{2}$$

$$b_r = (-r)^r \cdot (v \times r) = -2v - 21 = -41$$

$$a_k = -41 \Rightarrow -8k + 22 = -41$$

$$\Rightarrow -8k = -63$$

$$\Rightarrow 8k = 63$$

$$\Rightarrow k = 7.875$$

$t_1 - t_0 = 15 \Rightarrow d = 15 \Rightarrow d = \frac{15}{f} = 15$ $t_4 - t_1 = \delta d \Rightarrow t_4 - t_1 = \delta \times 15 = 45$	6
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$a_r = 5, a_f = 10 \Rightarrow d = 10 - 5 = 5 \Rightarrow d = 5$ $\Rightarrow a_1 = a_r - f = 5 - 5 = 0$ $\Rightarrow a_1 = b_1 = 0, b_n = r + \Lambda n - \Lambda$ $\{r + \Lambda n - \Lambda = \Lambda n - 5\}$	$a_1 = b_1$ $\rightarrow a_r - a_1 =$ $b_r - b_1$ $d = 5$	7
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$t_n = \frac{f n - r}{r n + r}$ $\frac{r}{r} > \frac{f n - r}{r n + r}$ $\Rightarrow \Lambda n - f < f n + r \Rightarrow r n < 15 \Rightarrow n < 4, 5$ باید $n \geq 1 \Rightarrow$ $\frac{r}{r} > \frac{f n - r}{r n + r}$	8
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$t_n = \frac{9, 9, 9, 9, 0}{+9 +9 +0 -9 -9}$ $n_0 + 9 = 9 \Rightarrow C = 0$ $-1, 8 \times 1 + b \times 2 = 9$ $\Rightarrow b = 5, 8$	$a = \frac{r}{r} = -1, 8$ $\Rightarrow r \times (-1, 8) + \delta \times 5, 8 = 15, 3$	9
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$t_n = \frac{-9, -9, 0, \dots}{+0 +9 +9}$ $a_r = r$ $a_f = f$ $\Rightarrow d = \delta \Rightarrow a_1 = r - \delta = r - f$ $\Rightarrow a_n = \delta n + r$	$n_0 + 0 = -9 \Rightarrow C = -9$ $ x ^r + b \times 1 - 9 = -9$ $\Rightarrow b = -1 \Rightarrow t_n = n^r - n - 9$ $n^r - n - 9 = \delta n + r$ $\Rightarrow n^r - 9n - 25 = 0$	10
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$\Rightarrow (n-9)(n+5) = 0$
 $\Rightarrow n = 9, -5 \rightarrow$ $n \geq 1$ $\Rightarrow n = 9$