

$\{1\}$, $\{2, 3\}$, $\{4, 5, 6\}$, $\{7, 8, 9, 10\}$, $\{11, 12, 13, 14, 15\}$, $\{16, 17, 18, 19, 20\}$, $\{21, 22, 23, 24, 25\}$, $\{26, 27, 28, 29, 30\}$, $\{31, 32, 33, 34, 35\}$, $\{36, 37, 38, 39, 40\}$, $\{41, 42, 43, 44, 45\}$, $\{46, 47, 48, 49, 50\}$

$$4 \frac{a+11}{2} = \boxed{53}$$

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$\{1, 2, 3\}$, $\{4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}$, $\{16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30\}$, $\{31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50\}$

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$$\frac{111 + 144}{2} = \boxed{127.5}$$

$$\frac{n(a_1 + a_n)}{2} = \frac{1}{2}(a_1 + a_n)$$

←

$$a_n = \begin{cases} 2k & n = 2k = 2, 4, 6, 8, \dots \\ -2k+1 & n = 2k+1 = 1, 3, 5, 7, \dots \end{cases}$$

$$n = 2k \Rightarrow 2, 4, 6, 8, \dots$$

$$n = 2k+1 \Rightarrow 1, 3, 5, 7, \dots$$

$$n = 2k+2 \Rightarrow 3, 5, 7, 9, \dots$$

$$a_1 + a_2 + a_3 + \dots + a_n = ?$$

$$1 + 1 + 1 + \dots + 1 = 1 \cdot n = n$$

$$= \boxed{5}$$

$$a_0 = 1, a_2 = 2, a_4 = 4, a_6 = 8, \dots$$

$$a_1 = 1, a_3 = 2, a_5 = 4, \dots$$

$$a_7 = 1 + a, a_9 = 1 + a, a_{11} = 1 + a, \dots$$

$$5 + 4 = 9$$

$$\Rightarrow a = -5$$

$$an^2 + bn + c$$

$$a = \frac{1}{50} \cdot 1 - a_0 = -\frac{a_0}{50} = -\frac{14}{50} = -\frac{1}{5} \Rightarrow a = -\frac{1}{5}$$

$$n=0 \Rightarrow 1 \cdot a + 0 \cdot b + c = -1 \Rightarrow a + c = 14$$

$$n=1 \Rightarrow 1 \cdot a + 1 \cdot b + c = -1 \Rightarrow a + b + c = 14$$

$$\Rightarrow b + c - a - c = 14 - 14 \Rightarrow b = 0 \Rightarrow c = -1$$

$$a_{10} = -10 \times 10 + 10 - 1 = 14$$

$$a_n = -\frac{1}{5}n^2 + 10n - 1$$

$$a_1 = -\frac{1}{5} + 10 - 1 = 9 - \frac{1}{5} = \frac{44}{5}$$

$$\frac{a_{10}}{a_1} = 14 \times \frac{5}{44} = \frac{35}{11} \Rightarrow \text{جواب}$$

$$t_1 + v_1, t_1 + v_2$$

$$\Rightarrow 1 \cdot d + 2 \cdot a = 2 \Rightarrow d = \frac{2}{3}a$$

$$2a + b, 3a + b$$

$$10a + b = 0 \Rightarrow b = -10a$$

$$\Rightarrow an - 10a$$

$$n=10 \Rightarrow 10a - 10a = 0$$

$$an + b$$

$$a_1 + (n-1)d$$

$$\frac{a_n}{a_1} = \frac{a_n}{a_1} = \boxed{15}$$

$$4a^2 = 2a + a + 1a + a$$

$$4(a+d)^2 = 2(a+d)(a) + 1(a+d)(a)$$

$$4a^2 + 4ad + 4d^2 = 2a^2 + 2ad + 1a^2 + 1ad = 3a^2 + 3ad \Rightarrow 4a^2 + 4ad - 3a^2 - 3ad = 0$$

$$a = \frac{-d \pm \sqrt{d^2 + 4d^2}}{4} = \frac{-d \pm \sqrt{5}d}{4}$$

$$a = -d \Rightarrow \frac{a}{d} = -1$$

$$a = \frac{1}{4}d \Rightarrow \frac{a}{d} = \frac{1}{4}$$

a, b, c حقیقی

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$b, \frac{a}{r}, \frac{c}{r}$ حقیقی

$$2b = a + c \Rightarrow 2b - c = a \quad \Rightarrow (bc) = (2b - c)^2$$

$$\frac{a^2}{r} = \frac{b^2}{r} \Rightarrow a^2 = b^2$$

$$bc = \epsilon b^2 + c^2 - \epsilon bc \Rightarrow \epsilon b^2 + c^2 - \Delta bc = 0$$

$$\Rightarrow b = \frac{+ac \pm \sqrt{4ac^2 - 14c^2}}{\Delta}$$

۱) $b, -b, b$

$$\frac{b}{-b} = \frac{-b}{b} = -1 = q$$

$$\boxed{19 = -1}$$

$$\Rightarrow b = \frac{\Delta c}{\Delta} = c \quad \text{من شود چون مقادیر ۱ و ۳ است}$$

$$\Rightarrow b = \frac{rc}{\Delta} = \frac{c}{r}$$

$$\Rightarrow c = \epsilon b \Rightarrow a = -\epsilon b$$

$$\epsilon = 1, \Delta = -1$$

a, b, c حقیقی

$\frac{x}{y}, x, xr$

$2b, 2a, c$ حقیقی $2x, \frac{2x}{r}, xr$

$$\epsilon a = \frac{\epsilon b + c}{\epsilon x + \frac{\epsilon x}{r}}$$

$$\frac{\epsilon x}{y} = \epsilon x + xr \Rightarrow$$

$$\epsilon x = \epsilon xr + xr^2$$

$$\epsilon = xr + r^2 \Rightarrow r^2 + xr \cdot \epsilon = 0$$

$$(r + \epsilon)(r - 1) = 0$$

$$-1 \quad 1$$

$$\frac{aa}{ay} = r^2 = (-\epsilon)^2 \cdot \frac{b}{(1)^2}$$

$$\boxed{-9\epsilon \leq 1} \quad (1)$$

$$\frac{ar^2}{ar^2 r} + \frac{ar}{ar} = r$$

$\downarrow \quad \quad \quad \downarrow$
 $\frac{r}{a} \quad \quad \quad \frac{r}{a}$

$$\frac{r^2}{ar} + \frac{r}{a} = r$$

$$\frac{r}{a} = x$$

$$\left\{ \frac{a^2}{ar} = \frac{a}{r} = \frac{9}{1} = \frac{1}{x} \right.$$

$$x^2 + x - 1 = 0$$

$$(x+1)(x-1)$$

$$x = -1 \Rightarrow \left(\frac{-1}{1} \right) = \frac{a}{r}$$

$$x = 1 \Rightarrow (1) = \frac{a}{r}$$

$$a_r = \sqrt{a_f}$$

$$a_\omega = \epsilon v$$

$$a_f, a_\epsilon, a_\omega$$

$$ar^2, ar^2, ar^2 \quad - (1)$$

$$(1) \quad (1) \quad (1)$$

$$(ar^2)^2 = ar^2 \Rightarrow a^2 r^4 = ar^2$$

$$ar = 1$$

$$ar^2 = \epsilon v$$

$$v^2 = \epsilon v$$

$$\Rightarrow v = \epsilon$$

$$\Rightarrow a = \frac{1}{\epsilon}$$

$$\frac{1}{r} - \frac{1}{r} = \frac{r-r}{y} = \boxed{\frac{1}{y}}$$