

Y_0

$$a_n = a_1 + (n-1)d \quad a_1 = a_1 + r_1 + r_2 + r_3 + r_4 + r_5 = 91 \quad r_1 = r_1^{-1}$$

$$VX \subset (n-1) + r_0 = r_0 \wedge \quad VX \subset (n-1) = 1 \wedge n \quad a = V(r)$$

$$n-1 = 1 \wedge n; \quad \vec{V} \frac{1}{3} n-1 = rV \quad (n = r_1) \checkmark$$

$\eta = \nu K + \pi \quad \nu K + \pi \geq 100 \quad \nu K \geq 9 \nu \quad K \geq 15, 15 \nu$
 $101 = \pi + (4K) \nu = K = 1K \quad \nu K + \pi \leq 999 \quad \nu K \leq 999 \quad (K)$
 $K \leq 15 \nu, 15 \quad 99 \nu = \pi + (15) \nu = K = 15 \nu \quad K \leq 15 \nu, 15 \nu$
 $15 \nu - 15 + 1 = 14 \quad (14) \checkmark$

$$\begin{aligned}
 a_n &= a_1 + (n-1)d & a_{n+1} &= a_1 + nd & a_{n+r} &= a_1 + (n+1)d \\
 a_{n+r} &= a_1 + (n+r)d & a_n + r + a_{n+r} + a_{n+1} &= -5n+1r & (r) \\
 5n+1r &= [a_1 + nd] + [a_1 + (n+1)d] + [a_1 + (n+r)d] \\
 r(a_1 + nd + (n+1)d + (n+r)d) &= -5n+1r & r(a_1 + rn + r) &= -5n+1r \\
 rd &= -5 & d &= -5 & a_n &= \Lambda - 5n \\
 a_{14} &= \Lambda - 5(14) = \Lambda - 70 = -75 & a_n &= \Lambda - 5(n) = \Lambda - 15 = -\Lambda \\
 -75 + (-\Lambda) &= -75 - \Lambda \quad \checkmark
 \end{aligned}$$

$$\begin{aligned}
 a + v d &= r^x - 1 \\
 a + v d &= r^{x+1} \\
 a + v d &= r^x - r \\
 (a + v d) - (a + v d) &= r^{x+1} - (r^x - 1) \\
 d &= \frac{r^x + 1}{r - 1} \\
 a + v d &= r^x - r \\
 e = r^x \quad e^r - r e - e &= 0 \quad \omega \quad x^r = e \quad x = r \quad r^x > 0 \\
 S &= (a + v d) + (a + v d) + (a + v d) = r d + v d \\
 S &= (1) + r(1) = r + 1 = 1
 \end{aligned}$$

$$\begin{aligned} a_{10} &= a + 9d & a_{14} - a_{10} &= 4d & \omega &= 4d & d &= \frac{\omega}{4} & \omega &= 4d \\ (a + 11d) - (a + 9d) &= 2d & \rightarrow & & 2d &= \omega & d &= \frac{\omega}{2} & \omega &= 2d \\ 11d &= 2\omega & 2a + 10d &= 2\omega & a + 10d &= \omega & a &= -10d + \omega & & \\ a + 2\omega &= 12\omega & \Rightarrow a &= -10\omega & a_{11} &= a + 10d &= -10\omega + 2\omega &= -8\omega & & \\ \omega &= -8\omega & & & & & & & & \end{aligned}$$

$$S_{\omega} = \frac{\omega}{v} [r_a + r_d] \quad \& S_s - I_0 = \frac{\omega}{v} [r_c a + \omega d] + r_d = \frac{\omega}{v} [r_c a + I_0 d] + r_d$$

$$\frac{\omega}{v} [r_a + I_0 d] \quad S_{\omega} = \frac{1}{v} S_s - I_0 \quad \frac{\omega}{v} (r_a + I_0 d) = \frac{1}{v} \cdot \frac{\omega}{v} (r_a + I_0 d)$$

$$\cancel{\frac{\omega}{v}} \cdot \frac{\omega}{v} \cdot \omega = S_a + I_0 d = r_a + I_0 d \quad \frac{r_d}{a} = \frac{r_a}{a} \quad \frac{dy}{dx} = \frac{r_d}{a} = \frac{r_a}{a} \quad \text{مشتق}$$

$$b_n = a + (n-1)d \quad b_{n-1} = a + (n-1)d, \quad t_n = a + (n-1)d \quad \textcircled{2}$$

$$a + (n-1)d = a + (n-1)d + 1a \quad a = 0$$

$$b_n = a + (n-1)d = a + (n-1)d \cdot a \quad t_n = a + (n-1)d = a + (n-1)d$$

$$b_9 = a + 8d \quad a = a + 0d \quad b_9 - t_9 = (a + 8d) - (a + 0d) = 8d$$

$$b_v = a + 10d \quad \frac{b_9 - t_9}{b_v} = \frac{8d}{a + 10d} = \frac{8}{a + 10d} \quad \textcircled{2}$$

$$a_1 = (1 - \sqrt{2}) \quad a_1 d = 1 + \sqrt{2} \quad a_n = a_1 + (n-1)d \quad -1$$

$$a_{10} = a_1 + 9d \quad 1 + \sqrt{2} = 1 - 12\sqrt{2} + 10d \quad \sqrt{2} = -12\sqrt{2} + 10d$$

$$13\sqrt{2} = 10d \quad d = \frac{13\sqrt{2}}{10} \quad \textcircled{2}$$

$$a_{n+1} = 1 + (n-1)d + 1 = (n-1)d + 2 \quad a_n = a_1 + (n-1)d \quad -9$$

$$1 + (n-1)d = 1 + (n-1)d - 1 = (n-1)d \quad 10 = (n-1)d$$

$$\Rightarrow d = \frac{10}{n-1} \quad 1 + nd = 11 \quad nd = 10 \quad d = \frac{10}{n} \quad \textcircled{2}$$

$$n(n-1) \quad 10n = 10(n-1) \quad 10n = 10n - 10$$

$$10n - 10n = -10 \quad 0 = -10 \quad n = 11 \quad \textcircled{2}$$

$$a_n + a_{n+1} = a_1 + a_2 \quad a_{10} = a + 9d \Rightarrow a + (n-1)d + a + (n+1)d = 2a + 2nd$$

$$a + 9d + a + 10d = 2a + 2nd \quad 19d = 2nd \quad 19 = 2n \quad n = 9.5 \quad \textcircled{2}$$

$$19d = 2nd \Rightarrow 19 = 2n \quad n = 9.5$$

$$a_n = 1 + \frac{a_n}{2} \Rightarrow a_n = 2 \quad a_n = a + nd$$

$$d \neq 0 \quad a = 2 - nd$$

$$a_k = a + (k-1)d = 0 \Rightarrow d + (k-1)d = 0 \quad (k-1)d = 0 \quad k-1 = 0 \quad k = 1 \quad \textcircled{2}$$

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