

الف) $a_n = \omega + (n-1)f = \omega + f_n - f = f_{n+1}$

$t_n = \underbrace{1, 3, 5, \dots}_{f} \underbrace{2, 4, 6, \dots}_{f}$ ۱

ب) $a_{10} = f(10) + 1 = f1$

الف) $S_{10} = \frac{10}{f} (r(\frac{10}{f}) + (9)(f1)) = \omega(f1) = 2f0$

$t_n = \underbrace{1, 3, 5, \dots}_{f} \underbrace{2, 4, 6, \dots}_{f}$ ۲ ۵

ب) $S_{11} = \frac{11}{f} (r(\frac{11}{f}) + 10(f1)) = 14(114) = 2140$

$f \times 11 = 22$

$1, \sqrt{3}, 2, 3, \sqrt{3}, \dots$ $2 - 1, \sqrt{3} = 1 - \sqrt{3} = d$ قدریست ۳ ۱۰

$a_{r\omega} - a_{rr} = 9 \rightarrow a + 2fd = a - 2fd = 2d \Rightarrow 2(1 - \sqrt{3}) = 2 - 2\sqrt{3}$

$a_n = \omega^{r\alpha}, r \times \omega^{2\alpha}, \omega^y \rightarrow \frac{\omega^y + \omega^{r\alpha}}{r} = r \times \frac{\omega^{r\alpha}}{r} \rightarrow \omega^y + \omega^{r\alpha} = 9 \times \omega^{r\alpha}$

$b_n = \alpha, r, y$ $9 = \frac{\omega^{r\alpha} + \omega^y}{\omega^{r\alpha}} = 1 + \frac{\omega^y}{\omega^{r\alpha}} \rightarrow \omega^{y-r\alpha} = 8 \Rightarrow y - r\alpha = 1$ ۱۵

$\frac{\alpha+y}{r} = 2$ $\alpha+y=f$ $\alpha=f-y$ $\alpha y = (f-y)(y) = (fy - y^2)$ $\alpha y = \alpha(r\alpha+1) = r\alpha^2 + \alpha$ $y = r\alpha + 1$

$r\alpha - f, r\alpha - 1, 4\alpha, \dots$ $r\alpha - f + 4\alpha = r\alpha - 1$ $a_n = -r + (n-1)r$

$\frac{n\alpha - f}{r} = r\alpha - 1 \Rightarrow f\alpha - r = n\alpha - f$ $a_f = -r + (r)(r) = 9 - r = 9$ ۲۰

$\frac{r}{f} = \frac{f\alpha}{f} \rightarrow \alpha = \frac{1}{r}$

$a_n = r, \underbrace{\omega, \omega, \dots}_{r}, \dots, 9, \underbrace{11, 13, 15, \dots}_{r}, \underbrace{17, 19, \dots}_{r}$

$\underbrace{\omega, 11, 13, \dots}_{f}$ ۲۵

$b_n = \underbrace{r, \omega, \omega, \dots}_{r}, \dots, \underbrace{11, 13, 15, \dots}_{r}$

$a_1 + a_4 + a_6 = 21 \rightarrow a_1 + a + d + a + rd = 21 \rightarrow 3a + rd = 21 \rightarrow a + d = 7 \rightarrow a = 7 - 1f = 6$ ۲۷

$a_1 + a_4 + a_6 = 10\omega \rightarrow a + a + rd + a + fd = 3a + 4d = 10\omega \rightarrow a + rd = 2\omega$ ۳۰

$a_r - a_r + a_1 = a + rd = a - d + a = a + d = 21$ $21 - d + rd = 2\omega$ $d = 1f$

$\frac{a+b}{a} = \frac{r1}{v} = 3$

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$$a_1 + a_2 + a_3 = 10$$

$$a = 10 - r = r$$

$$a_1 + a_2 + d + a_3 + r d = 10 \rightarrow r a + r d = 10 \rightarrow a + d = 10 \rightarrow a = 10 - d$$

$$a_1 + a_3 = r a \rightarrow a_1 + r d + a + r d = r a \rightarrow r a + r d = r a \rightarrow r(10 - d) + r d = r a \rightarrow 10 + r d = r a$$

$$(d = r)$$

$$a_1 = r + (10 - 1)r = r + 9r = 10r$$

$$S_9 = 9S_1$$

$$S_9 = \frac{9}{r} (r a_1 + r d) = \frac{9}{r} \times r (a + r d) = 9(a + r d)$$

$$S_1 = \frac{r}{r} (r a + r d) = \frac{r}{r} \times r (a + d) = r(a + d)$$

$$9(a + r d) = 9 \times r(a + d) = r r(a + d)$$

$$9(a + r d) = r r(a + d) \rightarrow a + r d = r a + r d \rightarrow d = r a$$

$$a_9 = a + 8d = a + 8r a = 9r a$$

$$a_9 = a + 8d = a + 8r a = 9r a$$

$$\frac{a_9}{a} = \frac{9r a}{1r a} = 9$$

$$(a_1 = 10) r r \quad a_n = r n + v \rightarrow 10, 10, 10, 10, 10, 10, 10, 10, 10$$

$$(a_9 = 90)$$

$$r a, \dots, 10$$

$$d = 10 \leftarrow 10, 10, 10, 10, 10, 10, 10, 10, 10$$