

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

$t_n = 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

ب)  $a_{10} = f(10) + 1 = f(1)$

الف)  $S_{10} = \frac{10}{f} (f(1) + f(11)) = \omega (f(1)) = 2f_0$

$t_n = 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

ب)  $S_{11} = \frac{11}{f} (f(1) + f(12)) = 14 (124) = 2140$

$a_{11} + a_{13} + a_{15} + a_{17} + a_{19} + a_{21} + a_{23} + a_{25} + a_{27} + a_{29} + a_{31} + a_{33} + a_{35} + a_{37} + a_{39} + a_{41} + a_{43} + a_{45} + a_{47} + a_{49} + a_{51} + a_{53} + a_{55} + a_{57} + a_{59} + a_{61} + a_{63} + a_{65} + a_{67} + a_{69} + a_{71} + a_{73} + a_{75} + a_{77} + a_{79} + a_{81} + a_{83} + a_{85} + a_{87} + a_{89} + a_{91} + a_{93} + a_{95} + a_{97} + a_{99}$

$f \times 11 = 22 \quad 2(a_{11} + a_{19}) = 2(2(4) + 2(14)) = 494$

$1, \sqrt{3}, 2, 3, \sqrt{3}, \dots \quad 2 - 1 - \sqrt{3} = 1 - \sqrt{3} = d$

$a_{10} - a_{11} = 9 \rightarrow a + 2d - a - 2d = 2d \Rightarrow 2(1 - \sqrt{3}) = 2 - 2\sqrt{3}$

$a_n = \omega^{2n}, r \times \omega^{2n}, \omega^y \rightarrow \frac{\omega^y + \omega^{2n}}{r} = r \times \frac{\omega^y + \omega^{2n}}{r} \rightarrow \omega^y + \omega^{2n} = r \times \omega^{2n}$   
 $b_n = \alpha, r, y \rightarrow y = \frac{\omega^{2n} + \omega^y}{\omega^{2n}} = 1 + \frac{\omega^y}{\omega^{2n}} \rightarrow \omega^{y-2n} = \omega \Rightarrow y - 2n = 1$

$n+y=2 \quad \begin{cases} x+y=2 \\ x=\frac{2-y}{2} \end{cases} \quad \begin{cases} x+y=f \\ x=\frac{f-y}{2} \end{cases} \quad \begin{cases} x+y=f \\ x=\frac{f-y}{2} \end{cases} \quad \begin{cases} x+y=f \\ x=\frac{f-y}{2} \end{cases}$

$2n-1, 2n-1, 4n, \dots \quad 2n-1-f+4n = 2n-1 \quad a_n = -3 + (n-1)2$

$\frac{2n-1-f}{2} = 2n-1 \Rightarrow f-2 = 4n-2 \Rightarrow f = 4n$

$\frac{2}{f} = \frac{f}{f} \rightarrow 2 = 1$

$a_n = 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$b_n = 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

$C_n = 5, 11, 17, \dots \quad C_n = 4n - 1$

$4n-1 \leq 51 \rightarrow n \leq 13$

$a_1 + a_2 + a_3 = 21 \rightarrow a_1 + a + d + a + 2d = 21 \rightarrow 3a + 3d = 21 \rightarrow a + d = 7 \rightarrow a = 7 - d$

$a_1 + a_2 + a_3 = 10 \rightarrow a + a + r + d + a + f = 3a + r + d = 10 \rightarrow a + r + d = 10$

$a_1 - a_2 + a_3 = a + r + d - a - d + a = a = 7$

$\frac{a+b}{d} = \frac{21}{7} = 3$

$a_3 - a_2 + a_1 = \frac{20 - 21 - 7}{-7} = \frac{-8}{-7} = \frac{8}{7}$

Arman



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$$a_1 + a_2 + a_3 = 10$$

$$a = 10 - r = 10$$

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

$$a_1 + a_2 = 10 \rightarrow a + r d + a + d = 10 \rightarrow r a + r d = 10 \rightarrow r(10 - d) + r d = 10 \rightarrow 10 + r d = 10 \rightarrow r d = 0$$

$$d = 0$$

$$a_1 = r + (1 - 1)r = r + 0 = r$$

$$S_9 = 9 S_1$$

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

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

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

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

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

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

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

$$a_1 = 11, a_2 = 10, a_3 = 9, a_4 = 8, a_5 = 7, a_6 = 6, a_7 = 5, a_8 = 4, a_9 = 3$$

$$a_1 = 11$$

$$a_2 = 10$$

$$d = -1$$