

$a_{10} = \xi(10) + 1 = 41$  (ب)  $a_n = fn + 1$  (الف) ①

$a_{19} + a_{18} + a_{17} + a_{16} \rightarrow 118 + 122 + 126 + 130 = 496$  (ب)  $S_{10} = \frac{10}{2} ((2 \times 7) + (9)\xi) = 2\xi$  (الف) ②

$d = \frac{t_n - t_m}{n - m} \rightarrow d = \frac{r - (1 + r^m)}{1} \Rightarrow d = 1 - r^m$   $a_{10} - a_{18} = 2d = 2(1 - r^m) = 2 - 2r^m$  ③

$a_n = r^n + a = 9 \times r^n \rightarrow r^n = a(r^n) \rightarrow y = 2n + 1$   $ay = 1 \times r^m$  ④  
 $b_n = m + y = \xi \rightarrow y = \xi - m$   
 $y = 2m + 1$

$a, b, c \rightarrow rh = a + c \rightarrow \xi m - r = 2m - \xi + 2m \rightarrow r = 4m \rightarrow m = \frac{1}{r}$   
 $-r, 0, r, \dots \rightarrow d = r$   $a_\xi = a_1 + rd \rightarrow -r + r(r) = 9$  ⑤

$a_n = r, d, v \rightarrow d = r$   
 $r, n+1 \rightarrow a_{r,2} = f1$   
 $b_n = r, d, v \rightarrow d = r$   
 $r, n-1 \rightarrow a_{r,2} = 49$   
 $a_n = 9n - 1$   
 $1 \leq n \leq 10 \rightarrow$

$a_1 + a_1 + d + a_1 + rd = r1$   
 $a_1 + a_1 + rd + a_1 + \xi d = 1.0$   
 $d + rd = 1\xi \rightarrow d = 11, a_1 = -r1$  ⑥

$\frac{a_1 + rd - (a_1 + d) + a_1}{a_1} = \frac{a_1 + d}{a_1} \rightarrow \frac{-r1 + r1}{-r1} = \frac{r}{-r1} = \left(-\frac{1}{r}\right)$  ⑦

$a_1 + a_r + a_r + a_\xi + a_\omega = \xi_0 \rightarrow 2a_r = f_0 \rightarrow a_r = 11$   $a_{10} = a_r + rd = 1 + r(r) = 29$  ⑧

$a_1 + a_1 + d + a_1 + rd = r0 \rightarrow 3a_1 + rd = r0 \rightarrow 19 + rd = r0 \rightarrow d = r$  ⑨

$\frac{4}{r}(ra_1 + 1d) = 9 \times \frac{r}{r}(ra_1 + rd) \Rightarrow ra_1 + 1d = r(ra_1 + rd) = 9a_1 + 9d \Rightarrow d = 2a_1$  ⑩

$a_r = a_1 + 9d \rightarrow a_r = a_1 + 9(ra_1) = 10a_1$   
 $a_r = a_1 + 19d \rightarrow a_1 + 19(ra_1) = 10a_1$   
 $\frac{r4a_1}{10a_1} = \frac{a_r}{a_r} = \frac{r4}{10}$

$a_1 = 11, a_r = a_1 + 9d = r0 \rightarrow d = f$   $a_\xi = a_1 + rd = 2r$

$d_r = \frac{r1 - r}{n+1} = \frac{r0}{n+1} \rightarrow a'_\xi = r1 + rd_r = r1 - \frac{r0}{n+1} = 2r \rightarrow \frac{rd}{n+1} = 1 \rightarrow n = 8$