

الف)	۱	$a_n = 1, 3, 5, \dots$ r_{n+1} $(r_{n+1}) + 1 = 4$
الف	۲	$a_n = 1, 3, 5, \dots$ r_{n+1} $a_1 + a_2 + a_3 + a_4 = 2(a_1 + a_4) = 2(1 + 7) = 16$ $S_n = \frac{n}{2} (2a_1 + (n-1)d) = \frac{n}{2} (2 + (n-1)2) = n^2$
	۳	$1 + \sqrt{3}, 2, 3 - \sqrt{3}$ $2 - 1 - \sqrt{3} = 1 - \sqrt{3} = d$ $2(1 - \sqrt{3}) = 2 - 2\sqrt{3}$
	۴	$a_n = 2x, 3, 5, \dots$ $b_n = x, 2, y$ $\begin{cases} a+y=4 \\ y=2n+1 \end{cases} \rightarrow \begin{cases} x=1 \\ y=3 \end{cases} \rightarrow ay=3$
	۵	$2x-2, 2x-1, 4x$ $2x-1+3=4x$ $2x+2=4x$ $4x-2x=2$ $2x=2$ $x=1$ $t_1 = (1 \times \frac{1}{2}) - 1 = -\frac{1}{2}$ $t_4 = t_1 + 3d$ $t_4 = -\frac{1}{2} + 9 = \frac{17}{2}$

$$a_n = r, d, v, \dots, -f, r_{n+1} \quad (r \times r) + 1 = f$$

$$b_n = \frac{r, d, \Lambda, 11}{r} \quad r_n - 1 \quad (r \times r) - 1 = d, 9$$

$$b_n \cap a_n = \frac{d, 11}{r}$$

$$q_{n-1}$$

$$q_{n-1} < f$$

$$q_n < f$$

$$n < v$$

$$\boxed{f, v}$$

$$(r)$$

$$a_1 + ar + ar = r$$

$$ra_1 + rd = r$$

$$a_1 + d = v$$

$$a_1 + rd - ra_1 + -d$$

$$\boxed{-a_1 + d = +r + r\Lambda = f, 9}$$

$$(1, d)$$

$$a_1 + ar + ad \quad \left[\begin{array}{l} a_1 + rd = rd \\ a_1 + d = v \end{array} \right] \quad d = f, \Lambda$$

$$ra_1 + rd = 1 \cdot d$$

$$a_1 + rd = r, d$$

$$\frac{ar - ar + a_1}{a_1} = \frac{r, d - v - r}{-r} = \frac{-1}{r}$$

$$t_1 + tr + tv = 1d \rightarrow ra_1 + rd = 1d \rightarrow t + d = d \rightarrow d = r$$

$$tr + td = r, d \rightarrow rt + vd = rv$$

$$t_1 = t + rd$$

$$1, 9 + (9 \times r, f) = r, r, r$$

$$a_1 = ar + rd$$

$$a_1 = d + r = r, 9$$

$$t = 1, 9$$

$$\left. \begin{array}{l} rt + vd = rv \\ rt + rd = 1 \end{array} \right\} \quad d = 1v$$

$$d = \frac{1v}{a} = r, f$$

$$(1)$$

$$f(r, d, \frac{1}{r} + (n-1)d)$$

$$\frac{f}{r}(ra_1 + (r)d = \frac{q}{r}(ra_1 + (q+1)d)$$

$$ra_1 + rd = qa_1 + nd$$

$$-rd = qd - a_1$$

$$-d = a_1$$

$$ra = d$$

$$\frac{a_1 + rd}{a_1 + rd} = \frac{-d + rd}{-d + rd} = \frac{q}{r} = \boxed{f, d}$$

$$\frac{a_1 + ra_1}{a_1 + ra_1} = \frac{ra_1}{ra_1} = r$$

$$t_1 = 11$$

$$tv = r, d$$

$$\left. \begin{array}{l} t_1 = 11 \\ tv = r, d \end{array} \right\} \quad \left. \begin{array}{l} rd = r, f \\ t + d = r, d \end{array} \right\} \quad l = f$$

$$tf = t_1 + rd = 11 + 12 = r, r$$

$$\boxed{rd, f}$$

$$tr, r$$



$$-1d = -d$$

$$d = -d$$

$$(r)$$

$$1.$$