

$t_n = an + b$ $t_n = a(n-1) + d$	$t_n : 5, 9, 13, 17, \dots$ $t_n = 4n + 1$ $t_{10} = 4(10) + 1 = 41$	الف) ۱ ب) $t_{10}?$
$t_n : 4, 10, 16, 22, \dots$ $S_n = \frac{n}{2} (2a + (n-1)d)$ ۳ جمله هفتم را بنویسید $t_{18} = 4(18) + 2 = 74$	$\frac{1}{2} (4 + 74) \times 18 = 675$ $\frac{1}{2} (4 + 74) \times 18 = 675$ $a_1 + a_2 + a_3 + a_4 = 2(a_1 + a_2)$ $2(4 + 10) = 28$	الف) ۱/۲۵ ب) ۲
$1 + \sqrt{3}, 2, 3 - \sqrt{3}, \dots$ $t_{13} + 2(1 - \sqrt{3}) = t_{10} \rightarrow t_{10} - t_{13} = 2 - 2\sqrt{3}$	t_{13}, t_{12}, t_{11} $t_{13} + 2(1 - \sqrt{3}) = t_{10} \rightarrow t_{10} - t_{13} = 2 - 2\sqrt{3}$	۳
$a_n = 2^n$ $b_n = n, 2, y \rightarrow \frac{n+y}{2} = 2 \rightarrow n+y = 4 \rightarrow y = 4-n$ $t - \frac{a}{n} = \frac{1}{2} - \frac{a}{n} = \frac{1}{n} \Rightarrow y = \frac{1}{n}$ I $n=1 \rightarrow y=3$ $ny < 3$	$\frac{a}{n} \times \frac{a}{n} = \frac{a^2}{n^2}$ $\frac{a}{n} \times \frac{a}{n} = \frac{a^2}{n^2}$ $ny = \frac{a}{n} \times \frac{1}{n} = \frac{a}{n^2}$ $a^y = 2^n + 1 \rightarrow a^y = 2^n + 1$ II $y = 2n + 1$	۴
$2n-4, 2n-1, 4n, \dots$ $2n-1 + 2 = 4n \rightarrow 2n = 3 \rightarrow n = \frac{3}{2}$ $t_n = 2n - 4 \rightarrow t_2 = 2(2) - 4 = 0$	$2n-1 + 2 = 4n \rightarrow 2n = 3 \rightarrow n = \frac{3}{2}$ $t_n = 2n - 4 \rightarrow t_2 = 2(2) - 4 = 0$	۵

$$a_n = \frac{r}{r-1} \omega, V_1 \rightarrow r(n+1) \rightarrow r(10) + 1 = 11$$

$$b_n = r, \Delta, \Lambda, \dots, r(n-1) \rightarrow r(r_0) - 1 = \Delta 9$$

$$r \times r = r \times d \quad \omega, 11, 1V, \dots, +n$$

$$4n-1 \quad n \leq V$$

$$4n-1 \leq r_1 \rightarrow 4n \leq r_2 \rightarrow n \leq V$$

(6)

$$r \times r \rightarrow r \times r = r_1 \rightarrow a r = r$$

$$a_1 + a_r + a_p = r_1 \quad a_1 + a_r + a_d = 10 \Delta \quad a_r - a_r + a_1 = ? a_1$$

$$a_1 + a_1 + r d + a_1 + r d - a_1 - r_1 - d - a_1 - r d = r d = \Delta r \rightarrow d = r \Delta$$

$$a_1 + a_1 + r \Delta + a_1 + r(r \Delta) \Rightarrow 3a_1 + \Delta r = r_1 \rightarrow 3a_1 = r_1 - \Delta r \rightarrow a_1 = r_1$$

$$a_1 + r d - a_1 - d + a_1$$

$$r_1 + \Delta r + r_1 - r \Delta - r_1 = V$$

$$\frac{V}{r \Delta} = \frac{1}{r} \rightarrow \dots$$

$$\frac{a r - a r + a_1}{a_1} = \frac{-V}{r_1} = -\frac{1}{r}$$

(1, V)

$$a_1 + a_r + a_p = 10 \quad a_r + a_d = r \Delta \quad a_{10} = ?$$

$$r \times r = 10 \rightarrow a r = 10$$

$$a_1 + a_r + a_{10} + a_r + a_d = r \Delta = r_0 \rightarrow a_0 = \frac{r_0}{r} \rightarrow r a_0 = \frac{r_0}{r} \times r$$

$$a r + a d = r a r + \Delta d = r_0 \rightarrow d = r$$

$$a_{10} = \frac{10}{r}$$

$$a_{10} = a r + \Delta d = 10 + r \Delta = (r_9)$$

(1)

$$r s_r = s_a \quad \frac{a r_0}{a v} = ?$$

$$r d = \frac{a_1}{d} \times a + \frac{a}{d} a r, \dots \quad a_1 = r d$$

$$a_r = r d \quad a_p = r d$$

$$a_v = \Delta d$$

$$a_{r_0} = \frac{r d}{\Delta r} = \frac{r_1}{\Delta}$$

$$\frac{a r_0}{a v} = \frac{r d}{\Delta r} = \frac{r_1}{\Delta}$$

$$1 \Delta + 1 \Delta d = a a + r d$$

$$\frac{a a}{a} = \frac{1 \Delta d}{a} \rightarrow a = r d$$

(1)

$$a_1 = 11 \quad a_v = r \Delta \rightarrow r d = r \Delta \rightarrow d = r$$

$$a_r = 11 + \frac{r \times r}{r} = r r$$

$$d = \frac{r r - r_1}{r} = \frac{-10}{r}$$

$$\frac{1 r - r_1}{n+1} = -\Delta \rightarrow -\Delta n - \Delta = -10$$

$$\Delta n = \Delta \rightarrow n = 1$$

$$\frac{1 r - r_1}{n+1} = -\Delta \rightarrow n \geq 1$$

(1, \Delta)

$$\cancel{\frac{q}{r}} (ra + rd) = q \times \cancel{\frac{r}{r}} (ra + rd)$$

$$ra + rd = ra + rd$$

$$ra = rd \rightarrow d = r$$

$$\frac{ar}{av} = \frac{a + ra}{a + ra} = \frac{ra}{ra} = \textcircled{r}$$