

$$t_1 = 5, \quad t_r = 4, \quad t_n = 201$$

$$n = 25$$

$$t_r - t_1 = rd \Rightarrow rd = 21 \Rightarrow d = 7$$

$$t_1 = 5 = 7n + 2r$$

$$7n + 2r = 201 \Rightarrow 7n = 175 \Rightarrow n = 25$$

$$\begin{array}{r|l} 175 & 7 \\ \hline 140 & 25 \\ \hline 35 & \end{array}$$

$$\frac{999}{-999} \frac{1}{12} \Rightarrow 999 + 12 = 1011$$

$$101 \leq 7n + 2 < 999 \Rightarrow 98 \leq 7n < 997$$

$$14 \leq n < 142$$

$$142 - 14 = 128$$

$$7an + 4d = -4n + 12 \Rightarrow 7a + 4 = -4 + 12 \Rightarrow 7a = -8 \Rightarrow a = -\frac{8}{7}$$

$$t_1 = a_1 + d \Rightarrow a_{n+1} + a_{n+2} + d_{n+2} = a_n + a_{n+1} + d + rd \Rightarrow a_{n+2} = a_n + rd$$

$$a_{12} = (-8 \times 12) + 12 = -96$$

$$a_{12} = (-8 \times 12) + 12 = -96 \Rightarrow 012 + a_{12} = -96 - 12 = -108$$

$$t_r = a_1 + rd = 2^{n-1}$$

$$t_n = a_1 + rd = 2^{n+1}$$

$$t_{12} = a_1 + 12d = 2^{12} - 2$$

$$\Rightarrow t_r + t_r = t_n + t_n$$

$$2t_n \Rightarrow 2(2^{n+1}) = 2^{n+2}$$

$$2^{n-1} + 2^{n-1} = 2^{n+2} \Rightarrow 2^n = 2^{n+2} \Rightarrow 1 = 2^2 \Rightarrow n = 2$$

$$2^n (2^n - 2) = 2 \Rightarrow 2^n = 2 \Rightarrow n = 1 \Rightarrow 2^n (1 + 2^n - 2) = 2$$

$$a_{12} - a_{10} = 2d = 0 \Rightarrow d = 0$$

$$a_{12} + a_{10} = 2a_1 + 20d = 20 \Rightarrow 2a_1 = 20 \Rightarrow a_1 = 10$$

$$a_{12} = a_1 + 20d \Rightarrow 10 + 20 \cdot 0 = 10$$

1 = 2000000 2 = 2000000

$$S_1 = \omega \frac{a_1 + a_0}{r} = \omega (a_1 + r d)$$

$$S_r = \omega \frac{a_r + a_1}{r} = \omega (a_1 + r d)$$

$$\frac{a_r}{a_1} = \frac{r a_1}{a_1} = r$$

$$a_r = a_1 + d = r a_1$$

$$S_1 = \frac{1}{r} S_r \Rightarrow \omega (a_1 + r d) = \frac{1}{r} \omega (a_1 + r d)$$

$$a_1 + r d = \frac{1}{r} (a_1 + r d)$$

$$r a_1 + r^2 d = a_1 + r d \Rightarrow r a_1 = a_1$$

$$t_n = t_{n-r} + d \Rightarrow t_n = t_{n-r} + d$$

$$(t_1 + t_2) (t_1 - t_2) = 1/r_0$$

$$\frac{r t_1 + r t_2}{r_0}$$

$$t_r = t_1 + r d = r a_1$$

$$\Rightarrow \frac{1/r_0}{r a_1} = \frac{1}{r a_1}$$

$$t_1 = ? \Rightarrow t_r = 10 \Rightarrow t_r = t_1 + r d \Rightarrow 10 = t_1 + 10 \Rightarrow t_1 = 0$$

$$t_1 = r (1 - 4\sqrt{r}) = r - 4r\sqrt{r}$$

$$t_{1/r} = r + \sqrt{r}$$

$$t_{1/r} = t_1 + r d \Rightarrow r + \sqrt{r} = r - 4r\sqrt{r} + 10d = 10d$$

$$d = \sqrt{r}$$

$$d = \frac{b-a}{(n-1)+1} = \frac{r-r}{n-1} = \frac{r_0}{n-1} \left\{ \begin{array}{l} t_1 = r, \quad r_{n-1} = r_0, \quad t_n = r_r \end{array} \right.$$

$$t_{n+1} = t_1 + (n+1-1) d \Rightarrow n d = 9$$

$$n d = \frac{r_{0n}}{n-1} = 9$$

$$r_{0n} = r_0 + (n-1)d$$

$$r_{0n} = r_0 + (n-1)d$$

$$4n = 1 \Rightarrow n = 1$$

$$a_n + a_{n+r} = a_r + a_{1/r}$$

$$(a + (n-1)d) + (a + (n+r)d)$$

$$(a + n d - d) + (a + n d + r d) = (a + r d) + (a + 1 d)$$

$$r a + (r n + r) d = r a + 1 d \Rightarrow (r n + r) d = 1 d$$

$$r n + r = 1 \Rightarrow r n = 1 - r \Rightarrow n = \frac{1-r}{r}$$