

$$a_1 = a/a_r = a+d/a_r = a+r d/a_r = a+r d/a_r - a+r d \rightarrow S_1 = a a_r + 1 \cdot d$$

$$a_2 = a/a_d = a+d/a_d = a+r d/a_d = a+r d/a_d - a+r d \rightarrow S_2 = a a_d + r d$$

$$S_1 = \frac{1}{r} S_2 \Rightarrow a a_r + 1 \cdot d = \frac{1}{r} (a a_d + r d) \Rightarrow r(a a_r + 1 \cdot d) = a a_d + r d \Rightarrow 1 a a_r + r \cdot d =$$

$$a a_d + r d \Rightarrow 1 \cdot a = a d \Rightarrow a = \frac{d}{r} \Rightarrow \frac{a+d}{a} = \frac{a_r}{a} = \frac{\frac{d}{r} + d}{\frac{d}{r}} = \frac{\frac{r d}{r}}{\frac{d}{r}} =$$

2 1/r

$$r_1 = a + nd / t_0 - a + r_d / t_1 + r_d / t_n = t_{n-r} + 1a \Rightarrow t_n - t_{n-r} = 1a =$$

$$[a + (n-1)d] - [a + (n-r)d] = r_d \Rightarrow r_d = 1a \Rightarrow d = 0 / t_1 = a + r. / t_0 = a + r.$$

$$t_1 = a + r. / \frac{t_1^1 - t_0^1}{t_1 - t_0} = \frac{(a+r.)^1 - (a+r.)^0}{a+r.} \Rightarrow \frac{[(a+r.) - (a+r.)] \times [(a+r.) + (a+r.)]}{a+r.} = \frac{r. (r. + r.)}{a+r.} =$$

$$\frac{r. (a + r.)}{a+r.} = r. \text{ برابر}$$

$$A = P(1 - \sqrt{r}) = 2 - 12\sqrt{r} \quad / \quad B = 1 + \sqrt{r} \quad / \Rightarrow a_k = a + 13d = B \Rightarrow A + 13d = B$$

$$2 - 12\sqrt{r} + 13d = 2 + \sqrt{r} \Rightarrow \quad \text{لا يمكن حلها / لا يمكن}$$

$$13d = 2 - 2 + \sqrt{r} + 12\sqrt{r} = 13\sqrt{r} \Rightarrow d = \frac{13\sqrt{r}}{13} = \sqrt{r}$$

$$r, r \rightarrow r, n-r \perp b \rightarrow \text{flag} \perp b = 11 \Rightarrow r, \hat{0}, \dots, 11, \dots, r, r$$

$$\underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r}, \underbrace{\quad}_{+r} \Rightarrow n=3 \Rightarrow (r, r) \perp r = 9 \quad (1.1)$$

$$\begin{aligned} r_1 + (n-1)d &= r_{n-1} \rightarrow \text{مساواة جملات} / a_k = a + (k-1)d \Rightarrow a_{n-1} = r_1 + (n-1)d \quad \text{I.I} \\ &= r_1 \Rightarrow (n-1)d = r_1 - r_1 \Rightarrow d = \frac{r_1 - r_1}{n-1} / a_{n+1} = a + nd = 11 \Rightarrow r_1 + n \times \frac{r_1 - r_1}{n-1} = 11 \Rightarrow \\ n \times \frac{r_1 - r_1}{n-1} &= 9 \Rightarrow r_1(n-1) = r_1 \cdot n \Rightarrow r_1 n = 11 \Rightarrow n = 11 \end{aligned}$$

$$\begin{aligned} a_n + a_{n+r} &= a_p + a_{1/r} \Rightarrow a + (n-1)d + a + (n+r)d = a_1 + r d + a_1 + 19d \Rightarrow \\ r a_1 + r(n+d) - d + r d &= r a_1 + 19d \Rightarrow r(n+d) = 19d \Rightarrow n d = 1d \Rightarrow n = 1 \\ a_n &= r(a_r) \Rightarrow a + r d = r(a + r d) \Rightarrow \cancel{a} = r a + r d \Rightarrow r a + r d = 0 \\ \Rightarrow a + d &= 0 \Rightarrow a + d = a_p \Rightarrow 0 = a_p \end{aligned}$$