

$$a_1 = r_0$$

$$a_2 = r_0 A$$

$$a_1 = r_1 \rightarrow \frac{r_0}{a_1} + \frac{r_0 d}{a_1} = r_1$$

$$\frac{r_0 d}{a_1} = r_1 - r_0$$

$$d = \frac{r_1 - r_0}{r_0}$$

$$r_1 \frac{r_0}{a_1} + \frac{r_0 d}{a_1} = r_0 A$$

$$r_1 = 17 d = 3 \Rightarrow n = 17 d$$

$$100 \leq 17n \leq 999$$

$$(142-12)11=119$$

$$97 \leq 17n \leq 994$$

$$12 \leq n \leq 122 \dots$$

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$$a_{n+1} + a_{n+2} + a_{n+3} = -4n + 11r$$

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$$12a_n + 4d = -4n + 11r \Rightarrow d = r \quad a = -r$$

$$a_1 + a_n$$

$$a_1 + 14d + a_1 + 14d =$$

$$2a_1 + 28d = 44$$

$$-r + 4r = 4$$

$$r^2 - 1, \quad r^2 + 1, \quad r^2 - 1$$

$$ar + a_n + a_{11} = 4$$

$$1 + r + 1 = 4$$

$$\frac{r^2 - 1}{r^2 - 1} + \frac{r^2 - 1}{r^2 - 1} = r^2$$

$$\frac{r^2 - 1}{r^2 - 1} + \frac{r^2 - 1}{r^2 - 1} = r^2$$

$$r^2 = 1$$

$$r = 1$$

$$a_1 r - a_{10} = 0 \Rightarrow$$

$$r d = \omega$$

$$\frac{d \omega}{r}$$

$$a_{r1} = a_1 + r d$$

$$\frac{-r_0}{r} + \frac{100}{r} = \frac{r d}{r} = \boxed{r d}$$

$$a_{10} + a_{11} = 2d$$

$$r a_1 + \frac{r_0 d}{r} = 2d$$

$$a_1 = \frac{-r_0}{r}$$

$$\frac{a_1}{r} (a_1 + a_{10}) = \frac{1}{r} \left[\frac{a_1}{r} (a_1 + a_{10}) \right]$$

$$\frac{a_1}{r} (r a_1 + r d) = \frac{1}{r} \left[\frac{a_1}{r} (r a_1 + r d) \right]$$

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

$$r a_1 = d$$

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

$$r + v$$

$$t_n = t_n - r + 10$$

$$\frac{(t_9 - t_5) + (t_9 - t_5)}{t_v} = \frac{(t_9 - t_5) + (t_9 - t_5)}{t_v} = \frac{t_9 - t_5}{r} = r d$$

$$= r d = 10$$

$$t_9 = t_1 + 10$$

$$t_5 = t_1 + 10$$

$$t_9 = t_1 + 10$$

$$t_v = t_9 + 10 = t_1 + 10 \rightarrow t_v - t_9 = r d = 10 \Rightarrow \boxed{d = 10}$$

$$\frac{(t_9 - t_5) (t_9 + t_5)}{t_v} = \frac{r \times v \times d}{t_v} = 10 = r$$

$$a = \frac{a_1^N \epsilon_{1A} - a_2^S \epsilon_{2A}}{n+1} = \frac{r\sqrt{r} - r}{r^2} = \frac{r\sqrt{r}}{r^2} = \frac{\sqrt{r}}{r}$$

$$p(n) \text{ دالة } = p(n+1) \epsilon_{n+1}^A \rightarrow a_{n+1} = 1 = a_1 + (n-1)d$$

$$d = \frac{r\sqrt{r} - r}{\epsilon n - r} = \frac{r^0}{\epsilon n - r} = \frac{1\omega}{r n - 1}$$

$$r + (n) \times \frac{1\omega}{r n - 1} = 11 \Rightarrow \frac{1\omega}{r n - 1} = 9^r \Rightarrow r n - r = 0 \Rightarrow n = r$$

$$a_n + a_{n+r} = a_r + a_{1r} \Rightarrow r a_1 + \underbrace{(n-1 + n+r)}_{r n + r} d = r a_1 + r d$$

$$r n + r = 11 \Rightarrow n = 1$$

$$a_n = r a_{\frac{n}{r}}$$

$$a_1 = r a_{\frac{1}{r}}$$

$$a_1 + r d = r a_1 + r d \Rightarrow r d = -r a_1 \Rightarrow d = -a_1$$

$$a_x = a_1 + (n-1)d \Rightarrow a_1 + (n-1)(-a_1) = 0$$

$$a_1 \underbrace{(1-n+1)}_{r-n} = 0 \Rightarrow r-n=0 \Rightarrow n=r$$

$$n=1 \rightarrow a_r + a_r + a_{\epsilon} = 4 \quad \text{نفسه}$$

$$n=2 \rightarrow a_r + a_{\epsilon} + a_d = 0 \rightarrow a_d - a_r = -4$$

$$a_1 + \epsilon d - a_1 - r d = -4 \rightarrow r d = -4 \rightarrow d = -r$$

$$a_r + a_r + a_{\epsilon} = 4 \rightarrow r a_1 + d + r d + r d = 4 \rightarrow r a_1 = 11 \rightarrow$$

$$a_1 = 4$$

$$a_{1r} + a_1 = a_1 + a_1 + r d + r d$$

$$r a_1 + r d = r(4) + r(-r) = -r^2$$

سوال 3

$$a_3 + a_1 r = a_1 + a_1$$

$$r^n - 1 + r^{n+1} - r = r(r^{n+1})$$

$$r^n - r = r(r \times r^n) - r^n$$

$$r^n - r \times r^n - r = 0 \longrightarrow r = t$$

$$t^2 - 4t - 5 = 0 \longrightarrow t = 5 \longrightarrow r = 5 \longrightarrow n = 2$$

$$t = -1 \text{ غَدَق}$$

$$\text{حاصلات} \longrightarrow \frac{r}{r-1} / \frac{r+1}{r} / \frac{r(r)}{r-r} = \boxed{24}$$