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$$a_1 + a_r + a_r = 11 \rightarrow \left(\frac{r}{r} + r + r = 11 \right)^{xr}$$

$$a_1 a_r a_r = 11 \rightarrow a^r q^r = 11 \rightarrow aq = 11$$

$$r = \left[\frac{1}{r} \right] \leq r \leftarrow (r-1)(r-14) = 0 \rightarrow r = 14r + 14 = 0$$

$$rx^r = x^r + 11x^r - 1$$

$$x^r - 11x^r - 1 = 0$$

$$S_v = a \left(\frac{1-q^k}{1-q} \right) = 1 \left(\frac{1 - \frac{1}{11}}{1 - \frac{1}{11}} \right)$$

$$= \frac{A + 11V}{11} = \frac{11V}{11}$$

$$x^r = r, \rightarrow (x^r - r)(x^r + r) = 0$$

$$x = \pm r \rightarrow \begin{matrix} +r \\ -r \end{matrix} \begin{matrix} 1, r, r \\ 1, -r, r \end{matrix} \rightarrow q = \frac{1}{r}$$

$$a_1 = 11r \rightarrow (1 + q + q^2 + q^3 + q^4 = \frac{11}{11}) \rightarrow a + aq + aq^2 + aq^3 + aq^4 = \frac{11}{11} = 1$$

$$d = \frac{4r}{r} = \frac{11}{r} \rightarrow \frac{1}{r}, \frac{11}{r}, \frac{11}{r}, \frac{11}{r}, \frac{11}{r}, \frac{11}{r}, \frac{11}{r}$$

$$q^r = 11 \rightarrow q = 11 \rightarrow 1, 11, 11, 11, 11, 11, 11$$

$$A + B = \frac{40 + 14}{1} = \frac{11}{1}$$

$$q = -11 \rightarrow B = -11 \quad A + B = 32, 11 - 11 = 21, 11 = 11 \cdot 11$$

مندی
a_{1,1} = a₁

$$مندی: -11, \frac{40}{11}, \dots$$

$$مندی: 11, a^r \dots$$

$$a + 1 \cdot d = -11 + \left(\frac{40}{11} \times \frac{1}{11} \right) \quad d = \frac{-40 + 44}{11} = \frac{4}{11}$$

$$a_{1,1} = 1 = a_n = aq^v \rightarrow 1 = 11a q^v$$

$$q^v = \frac{1}{11} \rightarrow q = \frac{1}{11}$$

$$(a_v)^r = a_r a_1$$

$$(a + 4d)^r = (a + 11d)(a + 11d)$$

$$a^r + 11ad + 11ad = a^r + 11ad + 11ad + 11ad$$

$$11ad + 11ad = 0 \rightarrow d(11d + 11a) = 0 \rightarrow d = 0 \rightarrow 11d = -11a \rightarrow d = -a$$

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$$a_r a_s = a_f \rightarrow (a+d)(a+vd) = (a+rd)^r$$

$$a^r + vad + da + vda = a^r + rd^r + vad$$

$$rd^r - vad = 0$$

$$rd(d-a) = 0 \rightarrow \begin{cases} d=0 & \text{حالت اول} \\ d=a & \text{حالت دوم} \end{cases}$$

نتیجه: $a+b, a+rd, a+vd, \dots \rightarrow ra, ra, ra, \dots \rightarrow q=r$

$$t_1 = aq^q \rightarrow \frac{1}{r} \times r^q = r^q = 121$$

$$① \quad ra_r = raq$$

$$raq^r = aq^r + raq$$

$$② \quad ra_r = raq^r$$

$$rq = q^r + r \rightarrow q^r - rq + r = 0$$

$$③ \quad a_f = aq^r$$

$$(q-r)(q-1) = 0 \rightarrow \boxed{q=r}, q=1 \text{ غیر قابل قبول}$$

نتیجه: $\underbrace{a_{1r}+n}_{-1+n}, \underbrace{a_{11}+n}_{\frac{1}{r}+n}, \underbrace{a_f+n}_{\frac{a}{r}+n}$

$$\left(\frac{1}{r}+n\right)^r = (-1+n)\left(\frac{a}{r}+n\right)$$

$$\frac{1}{14} + n^r + \frac{1}{r}n = -\frac{a}{r} - n + \frac{a}{r}n + n^r$$

$$\frac{1}{14} + \frac{a}{r} = \frac{1}{r}n - \frac{1}{r}n$$

$$\frac{1+20}{14} = \frac{n-2n}{r} \rightarrow \frac{21}{14} = \frac{-n}{r} \rightarrow n = -\frac{21}{r}$$

$$a_n = a_1 + (n-1)d$$

$$a_f = 2 + \left(-\frac{r}{r}\right) = \frac{a}{r}$$

$$a_n = 2 + \left(-\frac{v}{r}\right) = \frac{1}{r}$$

$$q_r = 2 - 3 = -1$$

نتیجه: $-\frac{14}{r}, -\frac{20}{r}, -\frac{25}{r}, \dots$

$$q = \frac{-\frac{20}{r}}{-\frac{14}{r}} = \frac{+20 \cdot d}{+14} = \frac{a}{r}$$

نتیجه: $a_1, a_f, a_v \rightarrow a + a_f + a_v = vr$

نتیجه: $a_1, a_r, a_1 \rightarrow a = a_1 \rightarrow d = aq^r - a = a(q^r - 1)$

$$aq^q = a + q(a(q^r - 1))$$

$$q^q = 1 + q(q^r - 1)$$

$$q^q - q(q^r + 1) = 0 \rightarrow (q^r - 1)(q^r - 1) = 0$$

$$q^r = 1, 1 \rightarrow q = 2, 1$$

$$q=1 \rightarrow ra = vr$$

$$a = \frac{vr}{r}$$

$$d = \frac{vr}{r} (1+1) = \boxed{d=0}$$

$$q=2 \rightarrow a + 1a + 4ra = vr$$

$$vr a = vr \rightarrow a = 1$$

$$d = 1 (1+1) \rightarrow \boxed{d=v}$$