

$$(a+rd), (a+rd), (a+rd) \rightarrow a^r + 1 \cdot ad + 1 \cdot rd = a^r + 1 \cdot ad + 1 \cdot rd \Rightarrow r \cdot d + 1 \cdot ad = 0$$

$$\Rightarrow rd(1+d+a) = 0 \Rightarrow d < \begin{matrix} 0 \\ -a \\ 1 \end{matrix}$$

$$a+d, a+rd, a+vd \rightarrow a^r + \Lambda ad + vd^r = a^r + \Lambda ad + qd^r$$

$$\Rightarrow rd^r - rad = 0 \Rightarrow rd(d-a) = 0 \Rightarrow d = a$$

$$\left. \begin{aligned} a+d &= ra = \frac{1}{r} \Rightarrow a = \frac{1}{r} \\ a+rd &= r \times \frac{1}{r} = 1 \end{aligned} \right\} \Rightarrow q = \frac{1}{r} = r \Rightarrow a_1 = a, q^r = \frac{1}{r} \times r^r = 1$$

$$ra, q, ra, q^r, a, q^r \rightarrow ra, q + a, q^r = r \times ra, q^r$$

$$\Rightarrow a, q(r+q^r) = r a, q^r \Rightarrow r+q^r = rq \Rightarrow q^r - rq + r = 0$$

$$\Rightarrow (q-r)(q-1) = 0 \Rightarrow q = r$$

$$r, \frac{V}{r}, \dots \Rightarrow a_n = \frac{q-n}{r} \Rightarrow$$

$$\left\{ \begin{aligned} a_r &= \frac{\Delta}{r} \\ a_1 &= \frac{1}{r} \\ a_{1+r} &= \frac{-r}{r} \end{aligned} \right.$$

$$b_n = \frac{\Delta}{r} + x, \frac{1}{r} + x, \frac{-r}{r} + x \rightarrow x^r + \frac{x-1}{r} = x^r + \frac{x}{r} + \frac{1}{r}$$

$$\Rightarrow rx - r = \Lambda x + 1 \Rightarrow rx = -r \Rightarrow x = -1$$

$$b_n = \frac{\Delta}{r} + x, \frac{1}{r} + x, \frac{-r}{r} + x \rightarrow -r, -\Delta, \frac{-r\Delta}{r} \rightarrow q = \frac{-\Delta}{-r} = 1, \frac{r}{r}$$

$$a_1 + a, q^r + a, q^r = V^r \rightarrow a_1(1+q^r+q^r) = V^r$$

$$\times q^r \quad \times q^r$$

دنبالہ حسابی: $a_1, a, q^r, \dots, a, q^r \rightarrow \left. \begin{aligned} d &= a, q^r - a_1 \\ d &= a, q^r - a, q^r \end{aligned} \right\} \Rightarrow a_1(q^r-1) = a, q^r(q^r-1)$

$$q = r$$

$$a_1(1+q^r+q^r) = V^r \Rightarrow a_1(V^r) = V^r \Rightarrow a_1 = 1$$

$$d = a, q^r - a_1 \Rightarrow d = 1 - 1 = 0$$