

$$a, aq, aq^r \quad (a, aq, aq^r) \rightarrow a, saq, s \rightarrow a = \frac{s}{q}$$

11, 12, 13

$$a(1+q+q^r) = s \rightarrow \frac{s}{q}(1+q+q^r) = s \rightarrow 1+q+q^r = s \rightarrow 1+q+q^r = s$$

$$\Delta = b^2 - 4ac = (-1)^2 - 4 \times 1 \times s = 1 - 4s$$

$$q = \frac{1 \pm \sqrt{1-4s}}{2} \rightarrow \left\{ \frac{1 \pm \sqrt{1-4s}}{2} \right\}$$

$$(x)^r (x^r - r)(x^r + r) \rightarrow x^{2r} - rx^{2r} - 1 \rightarrow x^{2r} - rx^{2r} - 1 = 0 \quad (x^r - r)(x^r + r) = 0 \rightarrow x = \pm r$$

$$x = r \quad 1, 2, 3, \dots$$

$$S_V = 1 \times \frac{L(\frac{1}{r})^V}{1 - \frac{1}{r}} = 14 \times \frac{1}{13} = \frac{14}{13}$$

$$1+q+q^r+q^r+q^s = \frac{14}{13} \quad \frac{xa}{13} \rightarrow a+aq+aq^r+aq^r+aq^s = \frac{14}{13} \times \frac{14}{13} = \frac{196}{169}$$

$$d = \frac{q^r - 1}{q + 1} = 10 \rightarrow 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20$$

11, 12, 13

$$q = \frac{q^r}{1} = \frac{q^r}{1} \rightarrow q = r \rightarrow 1, 2, 3, 4, 5, 6, 7, 8, 9, 10$$

$$r, r, d + 1 = s, d \quad B = -1 \quad A + B = r, d, \omega \quad q = -r$$

$$d = \frac{1}{s} \rightarrow a_n = r + \frac{1}{s}(n-1) = \frac{1}{s}n - \frac{r-1}{s} \rightarrow a_{10} = \frac{1}{s} \times 10 - \frac{r-1}{s} = 1$$

11, 12, 13

$$bnsbg^{n-1} \times q^V \rightarrow (rq)^V = 1^V \rightarrow rq = 1 \rightarrow q = \frac{1}{r}$$

$$a+rd, a+rd, a+rd$$

11, 12, 13

$$(a+rd)^r (a+rd)(a+rd) \rightarrow a^r + rad + rad + rad + a^r + 10ad + 10d^r \rightarrow 10d^r = rad$$

$$a, a+rd, a+rd \quad d = 0 \quad d = \frac{1}{10}a$$

11, 12, 13

$$(a+rd)^r (a+rd)(a+rd) \rightarrow a^r + rad + rad + rad + a^r + 10ad + 10d^r \rightarrow 10d^r = rad \rightarrow d = \frac{1}{10}a$$

$$raq, raqr, aqr \rightarrow raqr + aqr \rightarrow 2aqr + aqr = 3aqr$$

11, 12, 13

$$2q = q^r + r \rightarrow q^r - 2q + r = 0$$

$$(q-1)(q-r) = 0 \rightarrow q = 1 \text{ or } q = r$$

9-9

$$+x \quad a_2, a_1, a_1 r$$

$$a+rd+n, a+vd+n, a+kd+n \xrightarrow{(a+n)s} (k+vd)s(k+rd)(k+rd)$$

$$r s \frac{k+vd}{k+rd} = \frac{r \cdot d}{rd} = \frac{d}{r}$$

$$k^r + 2vd^r + k^r k^r = k^r + 1vd + rvd \rightarrow k^r k^r k^r$$

$$a_1, a_2, a_v \rightarrow a, ar^r, ar^4$$

$$a_1, a_r, a_{10} \rightarrow a, a+d, a+9d \rightarrow (a+d)^r, a(a+9d) \rightarrow a+d+rd, a+9ad$$

$$a+a+d+a+9d \rightarrow r(a+10d) = Vr$$

$$\frac{r \cdot d}{V} + 10d = \frac{Vr \cdot d}{V} = Vr$$

$$\frac{d}{V} = a$$

1, w

$$a=1$$

$$w_a = V^r \rightarrow a = \frac{V^r}{r}$$

$$d = aq^r - a \rightarrow \frac{V^r}{r} - \frac{V^r}{r} = 0$$