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تأليف سعاد د. 10/10/2019

$$t_1 + t_1 r + t_1 r^2 = 11 \quad t_1 + t_1 r^2 = 10 \quad t_1 r = 14 \quad (1)$$

$$t_1 + t_1 r + t_1 r^2 = 9F \quad t_1 + t_1 r^2 = 14 \quad t_1 r = 14$$

$$t_1 r^2 = 4F \quad t_1 r^2 = 14 \quad t_1 r = 14 \quad t_1 = 10 \quad 14 \rightarrow 1, F, \dots, r = F \quad L, 14, F, \dots, r = \frac{1}{F} \quad (2)$$

$$t_1 = t_1 r = F \quad t_1 r = 14 \quad t_1 = 10 \quad 14 \rightarrow 1, F, \dots, r = F \quad L, 14, F, \dots, r = \frac{1}{F} \quad (3)$$

$$(x^r - r)(x^r + r) = F x^r \quad x^r + F, r x, x^r - r, \dots$$

$$x^r + r x^r - \Lambda = F x^r \quad x = r \quad \Lambda, F, r, \dots \quad \sqrt{q} > 0 \quad q = \frac{1}{F} \quad \sqrt{q} < 0 \quad q = -\frac{1}{F}$$

$$x^r - r x^r - \Lambda = 0 \quad x = r \quad \Lambda, -F, r, \dots \quad \Lambda \quad q < 0 \quad q = -\frac{1}{F}$$

$$(x^r - r)(x^r + r) = 0$$

$$(x - r)(x + r)(x^r + r) = 0 \quad S_0 = a_1 \left(\frac{1 - q^n}{1 - q} \right) = \Lambda \left(\frac{1 - \left(\frac{1}{F} \right)^n}{1 - \frac{1}{F}} \right) = 14 - \left(14 \times \frac{1}{F} \right)$$

$$x = \pm r \quad 14 - \frac{1}{\Lambda} = \frac{140}{\Lambda} \quad (4)$$

$$a_1 = 14F \quad a_1(1 + q + q^r + q^F + q^F) = \frac{141}{\Lambda} \quad (5)$$

$$S_0 = a_1 + a_1 q + a_1 q^r + a_1 q^F + a_1 q^F = \frac{14F \cdot 141}{\Lambda} = 141F \quad (6)$$

$$d = \frac{b - a}{n + 1} = \frac{9F - 1}{0 + 1} = \frac{9F}{1} = 10/0 \quad a_{10} = A = 1, 5/0, 5/0 \quad (7)$$

$$q = \frac{b}{a} \Rightarrow q^1 = 9F \quad q = \pm r \quad a_{10} = B = 1, \pm \Lambda = \pm \Lambda$$

$$14, 0 + \Lambda, F, 0$$

$$\rightarrow 14, 0 - \Lambda, F, 0$$

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$$-rf, \frac{-q}{r}, \dots \quad d = \frac{-q}{r} + \frac{q}{r} = \frac{1}{r} \quad (10)$$

$$\Rightarrow a_{1,1} = a_1 + 1 \cdot d = -rf + 10 = 1$$

$$1/r, a_r, \dots$$

$$\Rightarrow a_1 = a_1 r^0 = 1/r^0 = 1 \quad r^0 = \frac{1}{1/r} \Rightarrow r = \frac{1}{r} \quad (11)$$

$$a = a_1 + td \quad (14)$$

$$aq = a_1 + td \quad (a_1 + td)^r = (a_1 + td)(a_1 + td)$$

$$aq^r = a_1 + td \quad a_1^r + r a_1^{r-1} td + \dots = a_1^r + 1 \cdot a_1^{r-1} td + r a_1^{r-2} t^2 d^2 + \dots$$

$$1 \cdot d^r + a_1 d = 0$$

$$d(1 \cdot d + a_1) = 0$$

$$d = 0, \frac{-a_1}{1}$$

$$a = a_1 + td$$

$$aq = a_1 + td \quad (a_1 + td)^r = (a_1 + td)(a_1 + td)$$

$$aq^r = a_1 + td \quad a_1^r + r a_1^{r-1} td + \dots = a_1^r + 1 \cdot a_1^{r-1} td + r a_1^{r-2} t^2 d^2 + \dots$$

$$-1 \cdot a_1 d + t d^r = 0$$

$$t d(-a_1 + d) = 0$$

$$d = 0, a_1 \Rightarrow r a_1, r^2 a_1, r^3 a_1, \dots$$

X

$$q = r \quad a_{1,0} = a_1 q^0 = \frac{1}{r} \times 1^0 = 1/r$$

