

$$t_1 + t_2 + t_3 = 21$$

$$t_1(1 + r + r^2)$$

$$t_1 \times t_2 \times t_3 = t_1 r^3 = 64 \rightarrow t_1 r = 4$$

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

$$\frac{1}{r} + 1 + r = 5,25$$

$$\frac{1}{r} + r = 4,25 \rightarrow r = \frac{1}{4}$$

چون غیر حسابی است

$$(2x)^2 = (x^2 + 4)(x^2 - 2) \rightarrow 4x^2 = x^4 + 2x^2 - 8$$

$$2x^2 = x^4 - 8 \rightarrow x = 2 \text{ و } -2$$

چون نزولی

$$S_n = a \frac{(q^n - 1)}{(q - 1)} = 121 \rightarrow 121 = \frac{121}{1} \times \frac{1}{1} = 121$$

$$t_1 + t_1 r + t_1 r^2 + t_1 r^3 + t_1 r^4 = ?$$

$$\frac{t_1}{243} (1 + r + r^2 + r^3 + r^4) = 243 \times \frac{121}{121} = 243$$

$$t_1 = 1$$

$$t_v = 64$$

$$t_1 = 1, t_v = 64 \rightarrow t_1 = t_v = A \rightarrow \frac{1 + 64}{2} = 32,5 = A$$

$$A + B = 32,5 + 1 = 33,5 \quad A - B = 32,5 - 1 = 31,5$$

$$t_1 = 1$$

$$t_v = 64$$

$$\frac{t_1 r^4}{t_1} = 64 \rightarrow r = 2 \text{ و } -2 \rightarrow 1 \times 2^4 = 16 = B = t_v$$

$$-\frac{97}{4}, -\frac{95}{4}, \dots \rightarrow t_{101} = -\frac{97}{4} + (100 \times \frac{1}{4}) = 1$$

$$d = \frac{1}{4}$$

$$t_1 = 128$$

$$t_n = 1 \rightarrow t_1 r^v = 1$$

$$\frac{128}{1} = \frac{t_1}{t_v} \rightarrow r = \frac{1}{2}$$

$$t_1 + r d, t_1 + y d, t_1 + \lambda d \rightarrow t_1^r = t_1 \times t_2$$

$$(t_1 + y d)^r = (t_1 + r d)(t_1 + \lambda d) \rightarrow t_1^r + y d^r + \lambda d t_1 = t_1^r + \lambda d t_1 + r d t_1 + \lambda y d^r$$

$$y d t_1 = -r d^r \rightarrow y t_1 = -r d \rightarrow t_1 = -r d$$

x

$$t_1^r = t_1 \times t_\lambda \rightarrow (t_1 + r d)^r = (t_1 + d)(t_1 + v d)$$

$$t_1^r + y d^r + y t_1 d = t_1^r + v d t_1 + d t_1 + v d^r$$

$$r = y, t_1 = \frac{1}{r}, y d^r = y d t_1 \rightarrow d = 0 \rightarrow d = t_1, t_{10} = \frac{1}{r} \times r^y = 12\lambda$$

y

$$r t_1, r t_r, t_f \rightarrow \frac{r t_1 + t_f}{r} = r t_r \rightarrow \frac{r t_1 r + t_1 r^r}{r} = r t_1 r^r$$

$$t_1 r(r^r + r) = r t_1 r^r \rightarrow r^r + r = r^r \rightarrow r = r(r - r)$$

$$r = r$$

λ

$$a_f = \frac{\omega}{f}, a_\lambda = \frac{1}{f}, a_{1r} = -\frac{r}{f}$$

$$(\frac{\omega}{f} + x)(-1 + x) = (\frac{1}{f} + x)^r \rightarrow x^r + \frac{1}{f} x - \frac{\omega}{f} = x^r + \frac{1}{f} x + \frac{1}{14} \rightarrow x = -\frac{r}{f}$$

$$t_1 = -r, t_r = -\frac{r\omega}{f}, t_r = -\omega, r = \frac{-\omega}{-r} = \frac{\omega}{r}$$

q

$$a_n: a_1, a_f, a_v \quad b_n: b_1, b_r, b_{10}$$

$$a_1 + a_1 r^r + a_1 r^y = v r \rightarrow b + \lambda b + y r b = v r$$

$$v r b = v r \rightarrow b = 1$$

$$d = v$$

$$d = v b$$

$$b_1(b_1 + y d) = b_1^r + r b d + d^r \rightarrow v b d = d^r \rightarrow d = 0 \leq d = v b$$

1.