

$$1, 2, 3, 4, \dots \quad (1)$$

مجموعه $\rightarrow 1, 2, 3, 4, \dots$ $\rightarrow$ مجموعه $\frac{1+2+3+\dots}{2} = \frac{13}{2}$ $\rightarrow$ مجموعه

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مجموعه $\rightarrow \frac{(1+13) \cdot 13}{2} = 91 \rightarrow$ مجموعه

$$a_0 + a_1 + a_2 + a_3 + a_4 + a_5 + a_6 + a_7 + a_8 + a_9 = 1 + 2 + 3 + \dots + 10 = 55 \quad (2)$$

مجموعه $\rightarrow n = 10 \rightarrow$ مجموعه $\frac{1+2+3+\dots}{2} = \frac{13}{2}$ $\rightarrow$ مجموعه

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$$t_{10} \rightarrow a_1 + r d' \rightarrow -q d' + r d' = \omega d'$$

$$\frac{L_{10}}{d} = \frac{\omega d'}{\frac{\omega}{f} d'} = \boxed{f}$$

$$\begin{aligned} y a_r^r &= \Delta a_r a + r a_r a \rightarrow y x^r = \Delta (x+d)(x.d) + r x(x.d) \quad \textcircled{9} \\ a_r &= x \\ a_r &= x+d \\ a_r &= x.d \end{aligned}$$

$$y x^r = \Delta x^r - \omega d^r + r x^r - r x d$$

$$0 = \underbrace{r x^r}_a - \underbrace{\omega d^r}_b - \underbrace{\omega d^r}_c$$

$$\frac{a_f}{d} \rightarrow \frac{a_r + r d}{d} = \frac{f \cdot \omega d - f \cdot \omega}{a} \quad x = a_r = \rightarrow \Delta = q d^r - f(-\omega d^r \times r) = f \omega d^r$$

$$x \rightarrow + \frac{r d \pm \sqrt{f \omega a} r}{f} \quad x = r \cdot \omega d = a_r$$

$$\downarrow \frac{d}{a} = \boxed{1}$$

$$a \ b \ c \xrightarrow{U_{10}} \frac{a+c}{f} - b \quad \textcircled{\checkmark}$$

$$b \ \frac{a}{f} \ \frac{c}{f} \rightarrow q \cdot \frac{\frac{c}{f} r}{\frac{a}{f}} = \frac{c}{r a} = \frac{\frac{a}{f}}{\frac{b}{a+c}} \rightarrow \frac{a}{a+c} \rightarrow$$

$$r a^r = c^r + a c$$

$$r a^r - a c - \frac{c^r}{c} = 0 \quad a \Rightarrow \Delta = c^r - f x (r x - c^r) = q c^r$$

$$a = \frac{c \pm \sqrt{q c^r}}{f} \rightarrow a = c \quad \textcircled{\checkmark}$$

$$\frac{a}{a+c} \Rightarrow \frac{-\frac{1}{f} c}{-\frac{1}{f} c + c} = \frac{\frac{-\frac{1}{f} c}{\frac{1}{f} c}}{\frac{1}{f} c} \leftarrow = -1 \rightarrow r q = \boxed{-r}$$

$$a \ b \ c \xrightarrow{U_{10}} a c = b^r \quad \textcircled{1}$$

$$r b \ r a \ c \xrightarrow{U_{10}} \frac{r b + c}{f} = r a \rightarrow r b + c = f a$$

$$\rightarrow a c = \left(\frac{f a - c}{f} \right)^r \Rightarrow a c = \frac{1}{f} r a^r + c^r - \frac{1}{f} a c$$

$$a_1: \quad b = \frac{f a - c}{f}$$

• dot note

$$\Delta = r a q c^r - f (1/r \times c^r)$$

$$= r \omega c^r \quad \leftarrow \quad 0 = \frac{1}{f} r a^r - \frac{1}{f} r a c + \frac{c^r}{c}$$

$$B = r \cdot C^r \rightarrow a = \frac{+14C \pm \sqrt{14^2 C^2}}{r} \rightarrow a = C \quad \leftarrow \text{نحل}$$

$$\rightarrow \frac{C}{a} = q^r \rightarrow \frac{C}{\frac{1}{14}C} = +14 = q^r \quad \text{ف جع} \quad a = \frac{1}{14}C$$

$$\frac{a}{a_r} = q^r \cdot (-f)^r \quad \leftarrow \text{نحل}$$

$$d = +14a$$

$$\downarrow$$

$$14a, 2a, 14a$$

$$\frac{a}{(ar)^r} + \frac{ar}{a \cdot r} = r \rightarrow \frac{a \cdot q^r}{(a \cdot q)^r} + \frac{a \cdot q}{a \cdot r} = r \quad (9)$$

$$\Rightarrow \frac{q^r + a \cdot q}{ar} = r \quad \text{نحل}$$

$$q^r + a \cdot q = r a^r \rightarrow r a^r - a \cdot q - q^r = 0$$

$$q = r$$

$$a \cdot q^r = a \cdot r \quad a \cdot q^r = r \cdot a \rightarrow a \cdot q^r = r \cdot a \rightarrow a \cdot q = 1$$

$$\frac{a}{ar} = \frac{a \cdot q^r}{a \cdot q} = q^r = r \rightarrow q = r$$

$$\frac{1}{r} - \frac{1}{r} = \frac{1}{r}$$

$$r a^r - a \cdot q - q^r = 0$$

$$a \rightarrow \Delta = q^r - f(r \cdot q - q^r) = q^r + 14q^r = 15q^r$$

$$a \rightarrow \frac{+q \pm \sqrt{15q^r}}{f} \rightarrow a = q \rightarrow a^r = q^r$$

$$a = -\frac{14}{f} = -\frac{q}{r} \rightarrow a^r = \frac{q^r}{f}$$

$$\frac{a^r}{ar} = \frac{a^r}{a \cdot q}$$

$$\frac{q^r}{f} = 1$$

$$\frac{q^r}{f} \cdot \frac{f}{-14} = \frac{-1}{r}$$

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