

$$\begin{array}{ccc} (1) & (2) & (3) \\ \underbrace{1} & \underbrace{2 \ 3 \ 4} & \underbrace{5 \ 6 \ 7 \ 8 \ 9} \\ 1 & 2 & 3 \end{array}$$

$$9 \times 9 = 11$$

$$2 \times 9 - 1 = 17 \rightarrow \text{بقیہ اعداد 9 سے}$$

$$11 - 17 = 6 \rightarrow \text{عدد اول 9 سے}$$

$$\frac{11 + 6 \times 9}{2} = 28$$

$$\begin{array}{ccccccc} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 \\ \textcircled{1} & & & & & & & & & & & \end{array} \quad \begin{array}{c} 13 \dots 29 \\ \textcircled{2} \end{array} \quad \begin{array}{c} 30 \dots 46 \\ \textcircled{3} \end{array} \quad \begin{array}{c} 47 \dots 63 \\ \textcircled{4} \end{array}$$

$$\text{میانگین} = \frac{121 + 299}{2} = \frac{420}{2} = 210$$

$$n=0 \rightarrow a_0 = 1$$

$$a_n = \frac{n}{k} \leftrightarrow n = k \cdot a_n$$

$$a_n = -\frac{n}{k} \leftrightarrow n = -k \cdot a_n$$

$$a_n = \left[\frac{n}{k} \right] + a \leftrightarrow n = k \cdot a_n$$

$$n=1 \rightarrow n = r(0) + 1 \rightarrow a_n = \frac{1}{r} + a$$

$$n=2 \rightarrow n = r(0) + 2 \rightarrow a_n = \left(\frac{2}{r} \right) + a = 1 + a$$

$$n=3 \rightarrow n = r(1) \rightarrow a_n = \frac{3}{r} = 1$$

$$n=4 \rightarrow n = r(1) + 1 \rightarrow a_n = -\frac{r(1)}{r} + 1 = 0$$

$$n=5 \rightarrow n = r(1) + 2 \rightarrow a_n = \left[\frac{5}{r} \right] + a = 1 + a$$

$$n=6 \rightarrow n = r(2) \rightarrow a_n = \frac{6}{r} = 2$$

$$n=7 \rightarrow n = r(2) + 1 \rightarrow a_n = -\frac{r(2)}{r} + 1 = 0$$

$$n=8 \rightarrow n = r(2) + 2 \rightarrow a_n = \left[\frac{8}{r} \right] + a = 2 + a$$

$$n=9 \rightarrow n = r(3) \rightarrow a_n = \frac{9}{r} = 3$$

$$n=10 \rightarrow n = r(3) + 1 \rightarrow a_n = -\frac{r(3)}{r} + 1 = -2$$

$$1 + 1 + 1 + a + 2 + 2 + 1 + a + 1 + 0 + 1 + a + 1 = 19$$

$$ra = -8 \rightarrow a = -1$$

$$a_1 + a_2 + \dots + a_{19}$$

$$a_1 = 1 + a = 0$$

$$-1 + -1 + \dots + \left[\frac{19}{11} \right] - 2 = -2$$

$$a_n = a_n' + b_n + c$$

$$\frac{1}{r}x - 17 = -\frac{1}{a}$$

$$-a + ab + c = 17 \rightarrow ab + c = 19$$

$$-9/11 + vb + c = 17/2 \rightarrow vb + c = 28$$

$$\left. \begin{array}{l} b = 1 \\ c = -1 \end{array} \right\} \frac{a_1 d - r a - 1 + 90}{-\frac{9}{a} + 1} = \frac{17}{\frac{1}{a}} = d$$

$$17d + a = A_1 \quad 17d + a = A_2$$

$$k + 9c = B_1 \quad 9k + 9c = B_2$$

$$k + 9c - (9k + 9c) = 17d + a - (17d + a)$$

$$ak = 17d \quad 9k + 9c = B_{10}$$

$$k = \frac{17}{9}d \quad 9k = -9c \rightarrow 9c = -17d$$

$$B_{10} = ak = 17d$$

$$17k + 9c = B_{10} \quad \frac{B_{10}}{d} = \frac{17 \cdot \frac{17}{9}d - 17d}{d} = 17$$

$$17k = 11/2d$$

$$f(a+d)^r = \omega a(a+rd) + ra(a+d)$$

$$ra^r + 1rad + rd^r = \omega a^r + 1\omega ad + ra^r + rad$$

$$-ra^r - ad + rd^r = 0 \xrightarrow{(-) \times} ra^r + ad - rd^r$$

$$a^r + ad - 1d^r = 0$$

$$(a+rd)(a-rd) = 0$$

$$a \begin{cases} +rd \\ -rd \end{cases}$$

$$\frac{a^r}{d} = \frac{a+rd}{d} = \frac{-rd+rd}{d} = 1$$

$$\frac{1/d + rd}{d} = \frac{r/d}{d}$$

$$a \ b \ c$$

$$a+c = rb \rightarrow a = rb - c$$

$$rb^r - abc + c^r = 0$$

$$\frac{c}{r} \ \frac{a}{r} \ b$$

$$\frac{bc}{r} = \frac{a^r}{r} \rightarrow a^r - bc = 0$$

$$\Delta = (ac)^r - r(ec^r) = qc^r$$

$$b = \frac{ac \pm \sqrt{qc^r}}{\Lambda} < \frac{c}{r} = c$$

$$a = rb - c \rightarrow r \times \frac{c}{r} \rightarrow c = -\frac{c}{r} \checkmark$$

$$a = rb - c \rightarrow rc - c = c \rightarrow \text{منه } c = 0 \text{ و } r = 1$$

$$rd = r \times \frac{a}{b} = \frac{-c}{r} \times r = -c$$

$$a < b < c \rightarrow b^r = ac$$

$$c < ra < rb \rightarrow rb + c = ra \rightarrow c = ra - rb$$

$$b^r = ra^r - rab$$

$$(b+ra)(b-a) = 0$$

$$b \begin{cases} -ra \\ a \end{cases}$$

$$c = ra + 1ra$$

$$c = ra - ra = 0 \quad \text{منه } r = 1$$

$$q = \frac{c}{b} = \frac{-ra}{-ra} = r \rightarrow$$

$$\frac{aq}{a^r} = r = \Lambda$$

$$\frac{aq^a}{a^r q^r} + \frac{aq}{a^r} = r$$

$$\frac{q^r}{a^r} + \frac{q}{a} = r$$

$$q^r + aq = ra^r$$

$$(q-ra)(q+a) = 0 \rightarrow q < \frac{ra}{-a}$$

$$\frac{a^r}{aq} \begin{cases} -\frac{a^r}{a^r} = -1 \\ \frac{a^r}{ra^r} = \frac{1}{r} \end{cases}$$

$$aq^r = \sqrt{aq^r}$$

$$a^r q^r = aq^r$$

$$aq = 1 \quad aq^r = aq \times q^r = rV$$

$$q^r = rV \rightarrow q = r \rightarrow a = \frac{1}{r}$$

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