

$$\frac{11+42}{r} = \sqrt{1^u}$$

$$\frac{\Delta \Lambda \Lambda_0^4}{r^4 \epsilon^4} = \boxed{r^4 r^4} \quad \checkmark$$

$$a_1, a_2, a_3, \dots, a_{14} \rightarrow -1, -1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 = -2$$

$$(-\frac{1}{a} \times 1) + (K_x \times 1) = 1$$

$$\frac{f_d}{d} = f \rightarrow \text{جواب}$$

$$a_r = n \quad 4m^r = \Delta(n+d)(n-d) + r^r m(m-d)$$

$$\Delta(n^r - d^r)$$

$$\Delta n^r - \Delta d^r + r^r n^r - r^r n d$$

$$r^r n^r - \Delta d^r - r^r n d = 0 \rightarrow n = \frac{r^r d \pm \sqrt{9d^r + 4\Delta d^r}}{2} = \frac{r^r d}{2} \rightarrow \frac{1}{2} d$$

$$a_f = a_r + r d \rightarrow \frac{1}{2} d + r d = \frac{r^r \Delta d}{2} \Rightarrow \frac{r^r \Delta d}{2} = \left[\frac{d}{2} \right]$$

$$\begin{matrix} c & b & a \\ \downarrow & \downarrow & \downarrow \\ d & d & d \end{matrix}$$

$$\begin{matrix} c & c+d & c+d+d \\ c & c+d & c+d \end{matrix}$$

$$q = -1 \rightarrow r q = -r$$

$$\begin{matrix} c & b & a \\ \downarrow & \downarrow & \downarrow \\ \frac{c}{r} & \frac{b}{r} & \frac{a}{r} \end{matrix}$$

$$\frac{c}{r} + \frac{c+r d}{r} + c+d \xrightarrow{\text{using } q=-1} \left(\frac{c+r d}{r} \right)^r = (c+d) \left(\frac{c}{r} \right) \rightarrow \frac{c^r + r d^r + r c d}{r} = \frac{c^r}{r}$$

$$c^r + r d^r + r c d = c^r + d^r c \rightarrow r c d = r c d \rightarrow c = -\frac{r}{r} d \rightarrow -\frac{1}{r} d, \frac{1}{r} d, -\frac{1}{r} d$$

$$\begin{matrix} a, b, c \\ \downarrow \downarrow \downarrow \\ \frac{a}{q}, \frac{b}{q}, \frac{c}{q} \end{matrix}$$

$$\begin{matrix} c, r a, r^r b \\ b q, r b, r^r b \end{matrix}$$

$$r^r b - \frac{r^r b}{q} = \frac{r^r b}{q} - b q$$

$$r^r b = \frac{r^r b}{q} - b q \rightarrow r^r b = \frac{r^r b - b q^r}{q}$$

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

$$q = \frac{-r^r b \pm \sqrt{4 r^r b^2 + 4 r^r b}}{2 r^r b}$$

$$\frac{a_q}{a_r} ? q^r \rightarrow (-r)^r = -4r$$

$$\frac{a^r}{a_r} = ?$$

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

$$a q + q^r - r a^r = 0$$

$$q = \frac{-a_1 \pm \sqrt{a_1^r + 4 a_1^r}}{2} \rightarrow a_1 \Rightarrow a_r = a_1^r$$

$$\frac{a^r}{a_1^r} = 1 \rightarrow \frac{a^r}{-r a_1^r} = -\frac{1}{r}$$

$$\begin{matrix} a_r = \sqrt{a_f} \\ a_{r^r} = a_f \\ a_\omega = r v \end{matrix}$$

$$a_\Delta = a q^r \times q$$

$$\frac{r v}{q} = a_f$$

$$\left(\frac{r v}{q} \right)^r = \frac{r v}{q} \rightarrow r v \times q^r = r v^r \times q$$

$$r v = q^r \rightarrow q = r$$

$$\begin{matrix} (a q^r)^r = a q^r \\ a^r q^r = a q^r \end{matrix}$$

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

$$\frac{1}{r^r} - \frac{1}{r^r} = \frac{1}{q} \rightarrow \frac{1}{q}$$