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Handwritten notes at the top right.

$$a_1 = r_0$$

$$a_f = a_1 + rd = 41 \quad \left. \begin{array}{l} \end{array} \right\} \rightarrow rd = r_1 \rightarrow d = V \rightarrow a_n = Vn + r_1 r \rightarrow r_0 \Delta = Vn + r_1 r$$

$$Vn = 1VA \rightarrow n = 2a$$

$$1.0 \left(Vn + r_1 r \right) \rightarrow 9V \left(Vn + r_1 r \right) \rightarrow 131 \rightarrow \frac{9V}{V} \left(n + \frac{994}{V} \right) = 131$$

$$1.5 \left(n + \frac{994}{V} \right) \rightarrow \frac{1.5r - 1.5}{1} + 1 = 1296$$

$$\left. \begin{array}{l} n=1 \rightarrow a_1 + a_2 + a_3 = r_0 a_1 + 9d = -4(1) + 12 \\ n=2 \rightarrow a_1 + a_2 + a_3 = r_0 a_1 + 9d = -4(2) + 12 \end{array} \right\} \begin{array}{l} -rd = 4 \\ d = -r \end{array}$$

$$r_0 a_1 + 9(-r) = 4$$

$$r_0 a_1 = 18$$

$$a_1 = 4$$

$$a_{10} + a_{11} = r_0 a_1 + r_0 d = r_0(4) + r_0(-r) = -r_0$$

$$\frac{a_{11}}{r_0} - \frac{a_{10}}{r_0} = ad$$

$$\frac{a_{11}}{r_0} - \frac{a_{10}}{r_0} = ad \rightarrow \frac{r_0 x}{r_0 - r} - \frac{r_0 x + 1}{r_0 - r} = \frac{r_0 x + 1}{r_0 - r} + 1 \rightarrow \frac{r_0 x}{r_0 - r} + r_0(-r) - r = 0$$

$$(r_0 - r)(r_0 + 1) = 0 \quad r_0 = -1 \quad r_0 - 1 + r_0 + r - r_0 = -1 + 1 + 1 - r = 1 - r$$

$$r_0 = r \rightarrow r = 2$$

$$\frac{a_{11}}{r_0} - \frac{a_{10}}{r_0} = d \rightarrow a_{11} + 11d - (a_{10} + 9d) = d \rightarrow rd = d \rightarrow d = r/d \rightarrow a_{10} + a_{11} = 2a$$

$$r_0 a_1 + r_0 d = 2a \rightarrow r_0 a_1 + r_0(r/d) = 2a \quad r_0 a_1 = 2a \rightarrow a_1 = -12/d$$

$$a_{11} = -12/d + r_0(r/d) = 37/d$$

$$\frac{\delta_a}{\delta_{10} - \delta_a} = \frac{1}{r} \rightarrow \frac{\frac{1}{r} (r_0 + (a-1)d)}{\frac{1}{r} (r_0 + (10-1)d) - \frac{1}{r} (r_0 + (a-1)d)} = \frac{1}{r}$$

$$\frac{a a_1 + 10d}{10a_1 + 10d - a a_1 - 10d} = \frac{1}{r} \quad 10a_1 + r_0 d = a a_1 + r_0 d$$

$$10a_1 = ad \rightarrow d = r_0 a_1 \Rightarrow \frac{a_1}{a_1} = \frac{a_1 + d}{a_1} = \frac{a_1 + r_0 a_1}{a_1} = r$$

$$\frac{t_a^r - t_a^r}{t_v} = \frac{(t_a - t_a)(t_a + t_a)}{t_v} \rightarrow \Delta d = \Delta(a) = f_0 \quad -v$$

$$t_a + t_a = t_v + t_v = r t_v$$

$$\frac{r + \sqrt{r} - r(1 - \sqrt{r})}{r+1} = d \rightarrow \frac{r + \sqrt{r} - r + r\sqrt{r}}{r} = d \rightarrow r\sqrt{r} = r d \quad -\wedge$$

$$d = \sqrt{r}$$

$$a_{n+1} = a_1 + (n-1)d = 11 \quad d = \frac{r r - r}{r_n - r_{n+1}} = \frac{1a}{r_{n-1}} \quad -9$$

$$r + n \left(\frac{1a}{r_{n-1}} \right) = 11 \rightarrow \frac{1an}{r_{n-1}} = 9 \rightarrow 1an = 1an - 9 \rightarrow r_n = 9 \quad \boxed{n = r}$$

$$a_n + a_{n+r} = a_r + a_{1r} \rightarrow r a_1 + (n-1 + n+r)d = r a_1 + 1nd \quad -10$$

$$r n + r = 1n \rightarrow r n = 1n \rightarrow n = 1$$

$$a_n = r a_{\frac{n}{r}} \rightarrow a_n = r a_{\frac{n}{r}} \rightarrow a_1 + v d = r a_1 + r(r d) \rightarrow d = -a_1$$

$$a_n = a_1 + (n-1)d \rightarrow a_1 + (n-1)(-a_1) = 0 \rightarrow a_1(r-n) = 0 \quad r n = 0 \quad \boxed{n = r}$$