

$t_1 = t_0 \rightarrow t_p = 9/1 \Rightarrow d = \frac{91 - f_0}{r} \approx v \Rightarrow t_n = v n + r v$
 $\Rightarrow \boxed{n = 20}$ ✓

$t_n = v n + r v$
 $142 - 141 = 1 \Rightarrow v(142) + r = 101$
 $142 - 141 = 1 \Rightarrow v(142) + r = 101$ ✓

$a_n + a_{14} = 2a_7$
 $a_{14} = -14r + a = -1$
 $a_{14} = -14r + a = -1$
 $a_1 + a_{14} = -1 - 14r = -14r$ ✓

$t_p = r^{2x} - r^x, t_r = r^x - 1, t_d = r^{x+1}$
 $\frac{t_p + t_r}{r} = t_d \Rightarrow \frac{r^{2x} - r^x + r^x - 1}{r} = r^{x+1}$
 $\boxed{1r^2 + r + 1 = r^3}$ ✓

$a_{14} - a_{10} = 4d = 0 \Rightarrow d = 0$
 $a_{14} + a_{10} = 2a_7 \Rightarrow 2a_1 + 20d = 2a_7 \Rightarrow a_7 = a_1 + 10d$
 $\Rightarrow a_7 = a_1 + 10d = -14r + a + 10d = -14r + a$ ✓

$r^x (a_1 + 10d) = a_1 + 10d \Rightarrow 1a_1 + 10d = a_1 + 10d \Rightarrow 10a_1 = 10d \Rightarrow d = a_1$
 $\frac{a_1 + 10a_1}{a_1} = \frac{11a_1}{a_1} = 11$ ✓

$\frac{(t_9 + t_4)(t_7 - t_0)}{t_9 + t_0} = r(t_9 - t_0) - 1d = 1 \times 0 = 0$ ✓

$t_n = t_{n-r} + 1 \Rightarrow t_f = t_1 + 1 \Rightarrow \frac{t_f - t_1}{r_d} = 1 \Rightarrow d = 1$

$$\frac{d = \sqrt{r + \sqrt{r}} - r + 1 + \sqrt{r}}{1 + \sqrt{r}} \approx \frac{1 + \sqrt{r}}{r}$$

$$a_{1r} = a_1 + 11^r d$$

$$r - 1 + \sqrt{r} + 11^r d = r + \sqrt{r}$$

$$11^r \sqrt{r} = 11^r d \rightarrow d = \sqrt{r}$$

$$a_{1r} = r \quad a_{n+1} = 11 \quad a_{f_{n-1}} = r^r$$

$$d = \frac{a_{n+1} - a_1}{n+1-1} = \frac{11-r}{n} = \frac{9}{n}$$

$$d = \frac{a_{f_{n-1}} - a_{n+1}}{f_{n-1} - n - 1} = \frac{r^r - 11}{r^{n-r}} = \frac{r^r}{r^{n-r}}$$

$$\frac{9}{n} = \frac{r^r}{r^{n-r}} \Rightarrow r^{11} = r^r n - 11r \Rightarrow r^n = 11r \Rightarrow \frac{r^n}{r} = 11$$

$$a_{n+1} + a_{n+1} = a_{n+1} + a_{n+1} \Rightarrow n+1 + r = 10 \Rightarrow n = 9$$

$$a_n = r^a \frac{1}{r} \Rightarrow a_n = r^a$$

$$27 a_n - a_f = a_{f+r} d - a_f = r^f d = 10a_f \Rightarrow d = a_f$$

$$a_f = 0$$

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