

سیرانه
Bayer

نام و نام خانوادگی ... آرتین سیدوانی ... پاسخنامه تشریحی تکلیف شماره ... کلاس ... (مع)

$$t_1 = 10$$

$$t_r = 91 \rightarrow t_r = t_1 + 3d \rightarrow 91 = 10 + 3d \rightarrow 3d = 81$$

$$d = 27$$

$$t_n = Vn + 33$$

$$t_{10} = Vn + 33 \rightarrow 10V = 91 \rightarrow V = 9.1$$

$$n = 10$$

$$t_1 = 101$$

$$101, 101.1, 115, \dots, 99V$$

$$\frac{99V - 101}{V} + 1 = 129$$

$$a_1 + a_2 + a_3 = t_1 + 4d = 4$$

$$a_1 = 4$$

$$a_1 + a_2 = t_2 + d = 12$$

$$a_2 = 8$$

$$a_1 + a_2 + a_3 = 0$$

$$4 + 8 + a_3 = 0 \rightarrow a_3 = -12$$

$$a_1 + 4d - a_1 - d = -4 \rightarrow 3d = -4 \rightarrow d = -\frac{4}{3}$$

$$t_r = r^n - 1 = a_1 + rd$$

$$t_n = r^{n+1} = a_1 + Vd$$

$$t_{13} = r^{13} - 13 = a_1 + 13d$$

$$t_r + t_n + t_{13} =$$

$$r^n - 1 + r^{n+1} - 13 = 3 + 1 + 13 = 17$$

$$r^n(1 + r - 13) = 17 \rightarrow r^n = 17 \rightarrow n = 1$$

$$a_{12} - a_{10} = (a_1 + 11d) - (a_1 + 9d) = 2d = 5 \rightarrow d = \frac{5}{2}$$

$$a_{10} + a_{12} = a_1 + 11d + a_1 + 9d = 2a_1 + 20d = 25$$

$$2a_1 + 20 \cdot \frac{5}{2} = 25 \rightarrow 2a_1 + 50 = 25 \rightarrow 2a_1 = -25 \rightarrow a_1 = -\frac{25}{2}$$

$$a_{12} = a_1 + 12d = -\frac{25}{2} + 12 \cdot \frac{5}{2} = \frac{25}{2}$$

$$S_1 = \Delta \times \frac{a_1 + a_4}{2} = \Delta(a_1 + r d)$$

$$S_r = \Delta \times \frac{a_r + a_{10}}{2} = \Delta(a_1 + r d)$$

$$S_1 = \frac{1}{r} S_r$$

$$\Delta(a_1 + r d) = \frac{\Delta}{r} (a_1 + r d)$$

$$a_1 + r d = \frac{1}{r} (a_1 + r d) \rightarrow r a_1 + r^2 d = a_1 + r d \rightarrow r a_1 = d \rightarrow a_r = a_1 + d = r a_1$$

$$t_n = t_{n-r} + 1 \Delta \rightarrow t_n = t_{n-r} d + 1 \Delta$$

$$t_r = t_1 + 1 \Delta$$

$$t_r = t_1 + r d$$

$$t_9 - t_5 = (t_9 + t_5)(t_9 - t_5) = r_0 t_v$$

$$\frac{t_9 - t_5}{t_v} = \frac{r_0 t_v}{t_1 + r d} = \frac{r_0 t_v}{t_v} = r_0$$

$$t_1 = r(1 - \sqrt{r}) = r - 1\sqrt{r}$$

$$t_{1r} = r + \sqrt{r}$$

$$t_{1r} = t_1 + 1\sqrt{r} \rightarrow r + \sqrt{r} = r - 1\sqrt{r} + 1\sqrt{r} \rightarrow 1\sqrt{r} = 1\sqrt{r}$$

$$t_1 = r, t_n = r^2$$

$$d = \frac{t_n - t_1}{(r_n - r) + 1} = \frac{r^2 - r}{r_n - r} = \frac{r_0}{r_n - r}$$

$$\frac{r_0 n}{r_n - r} = 9 \rightarrow r_0 n = r^2 n - 11$$

$$n = r$$

$$t_1, t_{n+1}$$

$$r, 11, r^2$$

$$11 + 9, r + r^2$$

$$t_{n+1} = t_1 + (n+1-1)d$$

$$nd = 9 \rightarrow nd = \frac{r_0 n}{r_n - r} = 9$$

$$a_n + a_{n+r} = a_r + a_{1r} \rightarrow n + n + r = r_0$$

$$t_n = a_1 + r d = r(a_1 + r d)$$

$$a_1 + r d = r a_1 + r^2 d \rightarrow r a_1 = -r d$$

$$a_1 = -d$$

$$a_r = a_1 + d$$

$$a_r = -d + d = 0$$

$$a_r = 0$$