

Date

Subject

سریالیزیشن

$$a_1 = 4$$

$$a_1 + 3d = 41$$

$$3d = 41 - 4$$

سوال ۱

$$a_n = Vn + 3r$$

$$3d = 21$$

$$Vn + 3r = 2 \cdot 1$$

$$d = 7$$

$$Vn = 14 \quad n = \frac{14d}{V} = 20$$

$$\frac{101}{91} \frac{V}{14}$$

$$101, \dots, 99V$$

سوال ۲

$$100 \ll Vn + 3 < 1000$$

$$9V \ll Vn < 99V$$

$$13, 14 \ll n < 142, 42 \dots$$

$$14, 14, \dots, 142$$

$$\frac{142 - 14}{1} + 1 = 129$$

$$a_1 + a_2 + a_3 = -9 + 12$$

$$a_1 + 11d = 9$$

سوال ۳

$$a_2 + a_4 + a_6 = 0$$

$$a_1 + 11d = 0$$

$$-3d = 9$$

$$d = -3 \quad a_1 = 27$$

$$a_1 + 7d + a_1 + 14d =$$

$$22 + 7(-3) + 22 + 14(-3) = -17$$

$$\frac{1}{r} d$$

Scanned

$$r^{n+1} = (r^n - 1) + (r^n - r^n) = r^n + r^n - r^n = r^n$$

r

$$r^n - r^{n+1} + r^n - r^n = 0$$

$$a_r = r^n - 1 = r^n$$

$$r^n (r^n + 1 - r^n) - r^n = 0$$

$$a_n = r^n - r^n = 0$$

$$y - r^n - r^n$$

$$a_r = r^n - r^n = 0$$

$$y (y - r^n) - r^n = 0$$

$$y^2 - r^n y - r^n = 0$$

$$y = \frac{r^n \pm \sqrt{r^{2n} + 4r^n}}{2} = \frac{r^n \pm 2r^n}{2} = r^n$$

9/12/20

$$a_r - a_l = \Delta$$

$$a_r + 11d - a_l - 9d = \Delta$$

$$2d = \Delta \quad d = \frac{\Delta}{2}$$

$$a_l + a_r = 2\Delta$$

$$a_l + 9d + a_r + 11d = 2\Delta$$

$$2a_l + 20d = 2\Delta$$

$$2a_l + \frac{20}{2} \times \frac{\Delta}{2} = 2\Delta$$

$$2a_l = 2\Delta - 5\Delta$$

$$a_l + 10d$$

$$2a_l = -3\Delta$$

$$a_l = -\frac{3\Delta}{2}$$

$$a_l = -\frac{3\Delta}{2}$$

9/12/20

$$a_1 + a_r + a_p + a_e + a_n = \frac{1}{n} (a_1 + a_r + a_p + a_e + a_n)$$

$$10a_1 + 10d = \frac{1}{n} (10a_1 + 10d)$$

$$10a_1 + 10d = 10a_1 + 10d$$

$$10a_1 + 10d = 10a_1 + 10d \rightarrow a = \frac{1}{n} d$$

$$\frac{a_r}{a_1} = \frac{\frac{1}{n} d}{\frac{1}{n} d} = 1$$

$$a_r = 1a_1$$

$$r_d = 1 \Delta \quad d = \Delta \quad t_d = a + \epsilon d = a + r.$$

Sol

$$t_q = a + \Delta d = a + r.$$

$$t_q^r - t_a^r = (t_q - t_a)(t_q + t_a) = r \cdot (r a + r) = \epsilon \cdot a + 1 r \dots$$

$$t_q - t_a = (a + \epsilon) - (a + r) = r.$$

$$t_q + t_a = (a + \epsilon) + (a + r) = 2a + r.$$

$$\frac{t_q^r - t_a^r}{t_r} = \frac{\epsilon \cdot a + 1 r \dots}{a + r} \quad \frac{1 r \dots (\epsilon)}{r}.$$

$$t_q^r - t_a^r = \epsilon \cdot t_r$$

Sol

$$\frac{r(1 - \sqrt{r})}{a_1} \sim \sim \sim \frac{(r + \sqrt{r})}{a_{1f}}$$

$$\frac{r + \sqrt{r} - r(1 - \sqrt{r})}{1 r} = r + \sqrt{r} - r(1 - \sqrt{r}) = r + \sqrt{r} - r +$$

$$1 r \sqrt{r} = 1 r \sqrt{r} \quad \frac{1 r \sqrt{r}}{r} = \sqrt{r}$$

$$\frac{r}{\epsilon n - r} \sim \sim \sim \frac{r r}{r r}$$

Sol

$$\frac{r}{a_1^r} \quad \frac{r r}{\epsilon n - 1} \quad d = \frac{r r - r}{\epsilon n - r} = \frac{r}{\epsilon n - r} = \frac{1 \Delta}{r n - 1}$$

$$n = 11 - r = 9 \quad 9 = n d \quad 9 = \frac{1 \Delta n}{r n - 1} \quad 1 \Delta n - 9 = 1 \Delta n \quad r n = 9, n = 3$$

$$t_n \rightarrow t_{n+1} = t_{n-1} + t_{n-2} = r$$

سوال ۱۹

$$r_{n+1} = r, \quad r_n = 14, \quad n = 1$$

$$t_n = r t_r \quad t_n = t_n + r t_r \quad r t_r = \dots \quad t_r = \dots$$

$$t_r + t_r + t_r = t_n + t_r + t_r$$