

$$a_1 = 40 \quad a_F = 40 + 3d = 41 \rightarrow 3d = 1 \rightarrow d = \frac{1}{3}$$

$$a_F = 41 \quad 201 = 40 + 3d \rightarrow 175 = 3d \rightarrow d = \frac{175}{3} = 58 \frac{1}{3}$$

۲۰۸ صبه ۵۵ ام این دنبال است

$$100 \leq 7n + 3 \leq 999 \rightarrow 100 \leq 7n + 3 \rightarrow 97 \leq 7n \rightarrow n \geq 14$$

$$7n + 3 \leq 999 \rightarrow 7n \leq 996 \rightarrow n \leq 142$$

$$(142 - 14) + 1 = 129$$

۱۲۹ عدد (رقعی و صوبه دار)

$$n=1 \rightarrow a_1 + a_2 + a_3 = 4$$

$$\frac{a_3}{a_1} = \frac{a_2}{a_1} = r \rightarrow a_3 - a_2 = -4$$

$$n=2 \rightarrow a_2 + a_3 + a_4 = 0$$

$$a_1 + 4d - a_1 - 2d = -4 \rightarrow 2d = -4 \rightarrow d = -2$$

$$a_2 + a_3 + a_4 = 0 \rightarrow 3a_1 + d + 2d + 3d = 0 \rightarrow 3a_1 = 11 \rightarrow a_1 = \frac{11}{3}$$

$$a_{14} + a_{15} = a_1 + a_{11} + 14d + 15d$$

$$2a_1 + 29d = 2\left(\frac{11}{3}\right) + 29(-2) = -\frac{50}{3}$$

$$a_3 + a_{13} = a_1 + a_{11}$$

$$2r - 2b - f = 0 \rightarrow t = f \rightarrow r = f$$

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

$$t = -1 \text{ غلط } \boxed{r = 2}$$

$$r^n - f = r(2 \times r^n) - r^n$$

$$r^n - 3 \times r^n - f = 0 \rightarrow r^n = t$$

$$\rightarrow 2 - 1 / 2 / 2 = 2f$$

$$3 + 1 + 13 = \boxed{17}$$

سوال ۹) a_{2n-3} و a_{2n-1} درجه ششم است پس $a_{2n-3} = 22$ و $a_{2n-1} = 30$ است

$$a_{2n-1} = a_1 + (2n-2)d = 30 \rightarrow (2n-2)d = 30$$

$$\rightarrow (n-1)d = 15$$

$$a_{n+1} = a_1 + nd = 11 \rightarrow nd = 9$$

$$2nd - d = 15 \rightarrow \begin{matrix} nd = 9 \\ d = 3 \\ n = 3 \end{matrix}$$

5

$$a_n + a_{n+1} = a_1 + a_2 \rightarrow n + n+1 = 1 + 2$$

سوال ۱۰)

$$2n + 1 = 10 \rightarrow n = 4$$

$$a_1 = 2a_2 \rightarrow a_1 + 7d = 2(a_1 + 3d)$$

$$2a_1 + 7d = a_1 + 6d \rightarrow a_1 = -d \rightarrow a_1 = -d$$

10

$$\rightarrow a_1 + (t-1)d = 0 \rightarrow td = 2d$$

$$\underline{t=2}$$

$2ar$

$$a_1 + ar + ar + ar + ar + ar = 5ar$$

سوال ۱۱)

$$a_1 + ar + ar + ar + ar + ar = 5ar$$

15

$$3 \times 5ar = 5a_1 \rightarrow 3ar = a_1 \quad \left[\frac{ar}{a_1} = \frac{3a_1}{a_1} = 3 \right]$$

$$3(a_1 + 3d) = a_1 + 6d \rightarrow 3a_1 = d$$

20

Subject

Year

Month

Day

()

دروس

مراجعة

$$Q_{11} - Q_{10} \cdot r_d = 0 \rightarrow \alpha = r_d$$

$$Q_{11} + Q_{10} = r_d + r_d \cdot Q_{10} \rightarrow r_d = 0 + r_d \rightarrow -r_d = r_d \rightarrow$$

$$Q = -1/2$$

$$Q_{11} = -1/2 + (r_d \cdot r_d) = 0 - 1/2 = -1/2$$

0/600

$$t_9 + t_0 = t_v + t_r = r t_v \rightarrow \frac{r t_v (t_v - t_0)}{t_v} = r (t_9 - t_0)$$

$$t_9' - t_0' = (t_9 - t_0)(t_9 + t_0)$$

$$t_9 + t_0 = t_1 + \Delta t - t_1 - f_0 \Delta = f_0 \Delta \rightarrow \Delta t$$

$$n = k \rightarrow t_r = t_1 + \Delta \rightarrow t_1 + r_0 \Delta = t_1 + \Delta \rightarrow \Delta s_0$$

$$\Delta t = \Delta (t_0) = \Delta t_0$$

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