

$$\left. \begin{array}{l} a_1 = f_0 \\ a_2 = q_1 \end{array} \right\} n \quad a_n = Vn + r^2 \rightarrow a_n = Vn + r^2 = r_0 \cdot n$$

$$Vn = r_0 \cdot n - r^2 \rightarrow Vn = 140 \rightarrow n = 20$$

$$99 < Vn + r^2 < 1000 \rightarrow \frac{99}{V} < \frac{Vn + r^2}{V} < \frac{1000}{V} \rightarrow 15.7 < n < 142.8$$

$$n: 16, \dots, 142 \quad \frac{142 - 16}{1} + 1 = 127$$

$$n=1 \Rightarrow a_1 + a_2 + a_3 = 4 \Rightarrow a + d + a + r + d + a + r + d = 4 \Rightarrow 3a + 3d = 4 \Rightarrow a + d = \frac{4}{3}$$

$$n=2 \Rightarrow a_2 + a_3 + a_4 = 0 \Rightarrow a + r + d + a + r + d + a + r + d = 0 \Rightarrow 3a + 3r + 3d = 0 \Rightarrow a + r + d = 0$$

$$Q, P \Rightarrow d = -r, a = 4 \quad a_n = a + (n-1)d = (n-1)(-r) + 4 = -rn + r + 4$$

$$a_{10} = -r(10) + r + 4 = -14 + r = -1 \quad a_{15} = -r(15) + r + 4 = -24 + r = -24 \quad a_{10} + a_{15} = -24 - 1 = -25$$

$$a_{10} + a_{15} = -25 \quad a_{10} = -1 \quad a_{15} = -24$$

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$$d = \frac{r_2 - r_1}{f_{n-1} - 1} = \frac{r_0}{f_{n-2}}$$

$$a_n = a_1 + (n-1)d$$

$$a_n = r + \frac{r_0 n}{f_{n-2}} - \frac{r_0}{f_{n-2}} = 11$$

9

(1)

$$\frac{r_0 n - r_0}{f_{n-2}} = 9$$

$$r_0 n - 18 = r_0 n - r_0$$

یہ صریحاً بیان صنفہ نوشتہ ہے!

$$\frac{9n}{9} = \frac{-18}{9} \rightarrow \boxed{n = -2}$$

5

$$a_n + a_{n+1} = a_r + a_{14} \rightarrow \frac{9}{2} + dn - d + \frac{9}{2} + dn + 13d = \frac{9}{2} + 13d + \frac{9}{2} + 14d$$

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$$2dn = 14d \rightarrow 2n = 14 \rightarrow n = 7$$

$$a_n = \frac{r_0 a}{n} \rightarrow a_n = \frac{r_0 a}{f}$$

$$a + vd = r(a + 13d) \rightarrow a + vd = ra + 13rd$$

$$ra + 13rd = 0 \rightarrow \boxed{a + d = 0}$$

$$a = -13d$$

(2)

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سوال 9

۴n-۳، اسطی صابا دم شہادت ہیں ۳۲ صدی ۴n-۱ است!

15

$$a_{4n-1} = \frac{r}{4} + (4n-2)d = 3r \rightarrow (4n-2)d = 5r \rightarrow (4n-1)d = 18$$

16

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

20

$$2nd - d = 18 \rightarrow nd = 9$$

$$\boxed{d = 3, n = 3}$$

25

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