

۲۰

نایب علی

$$a_1 + 3d = a_4$$

$$F_0 + 3d = 91$$

$$d = V$$

$$a_n = Vn + 33$$

$$F_{25} = Vn + 33$$

$$n = 25$$

(B)

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

(C)

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

ابتدا اعداد زوجی را که مقسوم بر ۲
برابر ۳۳ زوجی مانده می شود را باقی
می گذاریم و بعد تعداد آن ها را به دست می آوریم

$$2a_{n+2} = a_{n+1} + a_{n+3}$$

(۳)

$$a_{n+1} + a_{n+3} + a_{n+3} = 2a_{n+2} = -a_n + 12$$

$$a_{n+2} = -a_n + 6$$

$$a_1 = -12 + 6 = -6$$

$$a_{12} = -30 + 6 = -24$$

$$\Rightarrow a_{12} + a_1 = -24 - 6 = -30$$

(۴)

$$r \times r^{n+1} = r^n - 1 + r^{n+1} - r$$

$$r^{n+2} - r^n - r^{n+1} = -r$$

$$r^n (r^2 - 1 - r) = -r \Rightarrow r^n (r - 1 - r) = -r \Rightarrow r^n (-1) = -r$$

$$n = 1$$

$$a_{11} + a_{12} + a_{13} = \mu + \lambda + 1\mu = \boxed{\mu\epsilon}$$

$$a_{11} - a_{10} = \Delta \rightarrow \mu\Delta = \Delta$$

③

$$a_{10} + a_{11} = \mu\Delta \rightarrow \mu a_{11} = \mu\Delta$$

$$a_{11} = 1\mu\Delta$$

$$a_{11} = a_{11} + 1\Delta \Rightarrow a_{11} = 1\mu\Delta + \mu\Delta = \boxed{\mu\nu\Delta}$$

$$\mu(\Delta a + 1\Delta) = \Delta a + \mu\Delta d$$

④

$$1\Delta a + \mu\Delta d = \Delta a + \mu\Delta d$$

$$1\Delta a - \Delta d = 0 \xrightarrow{\div \Delta} \mu a - d = 0$$

$$a = \frac{d}{\mu}$$

$$\frac{a_{\mu}}{a} = \frac{a + d}{a} = \frac{\frac{\mu d}{\mu}}{\frac{d}{\mu}} = \boxed{\mu}$$

$$\mu d = 1\Delta \rightarrow d = \Delta$$

$$\mu d \Rightarrow \mu \times \Delta = \mu$$

⑤

$$t_a^{\mu} - t_{\omega}^{\mu} = (t_a + t_{\omega})(t_a - t_{\omega})$$

$$\mu t_{\nu} \times \mu$$

$$\frac{t_a^{\mu} - t_{\omega}^{\mu}}{\mu} = \frac{\mu t_{\nu} \times \mu}{t_{\nu}} = \boxed{\mu_0}$$

P

Date :

Subject :

$$d = \frac{b-a}{k+1} \Rightarrow d = \frac{r+\sqrt{r} - r+1r\sqrt{r}}{1r+1} = \sqrt{r} \quad (1)$$

$$d = \frac{r-r}{r-r+1} = \frac{1a}{r-r-1} \quad (2)$$

$$a_{n+1} = a_1 + nd$$

$$11 = r + \underbrace{nd}_q \leadsto \frac{1a}{r-r-1} = q \Rightarrow \boxed{n=r}$$

$$a_n + a_{n+r} = a_1 + a_{1+r} \quad (3)$$

$$n=1$$

$$a_1 + r d = r a_1 + r d$$

$$a_n = r a_1$$

$$r a_1 = -r d \Rightarrow a_1 = -d$$

$$a_n = a_1 + (n-1)d \quad \text{so} \quad a_1 = a_n + a_1 = r a_1 = n a_1$$

$$\boxed{n=r}$$