

نام و نام خانوادگی پرینا متعین پاسخنامه تشریحی تکلیف شماره ۱۳ کلاس دهم A

$$a_1 = 4$$

$$a_{14} = 91$$

$$a_n - a_1 = 3d \Rightarrow 3d = 91 - 4 = 87 \Rightarrow d = 29$$

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

$$= (n-1) \times 29 + 4$$

$$= 29n - 25$$

$$a_n = 29n - 25 = 14$$

$$29n = 39$$

$(n = 1.34) \rightarrow$ پاسخ $\rightarrow$ نه $\checkmark$

$$a_n = 29n - 25 \Rightarrow 1 \leq 29n - 25 \leq 999$$

$$27 \leq 29n \leq 1024$$

$$n \in \mathbb{N} \Rightarrow 1.34 \leq n \leq 35.31$$

$$1.34 \leq n \leq 35.31 \Rightarrow (35 - 1.34) + 1 = 33 \checkmark \rightarrow$$

$$(nd + a_1) + (nd + d + a_1) + (nd + 2d + a_1) = -9n + 12 \Rightarrow (3d)n = -9n + 12 \Rightarrow d = -2$$

$$3a_1 + 3d + (3d)n = -9n + 12$$

$$d = -2 \Rightarrow 3a_1 + (-6) = 12 \Rightarrow a_1 = 6$$

$$a_{14} + a_n = a_1 + 13d + a_1 + 7d = 2a_1 + 20d = 12 + (-40) = -28 \checkmark \rightarrow$$

$$a_n + a_n = a_1 + a_{13} \Rightarrow 2a_n = a_1 + a_{13} \Rightarrow 2 \times r^x = r^0 + r^{12} \Rightarrow r^x = r^6 \Rightarrow x = 6$$

$$\Rightarrow r^x = r^6 \Rightarrow x = 6$$

$$\Rightarrow a_1 + a_n + a_{13} = (r^0 - 1) + (r^6 - 1) + (r^{12} - 1) = 14 \checkmark \rightarrow$$

$$a_{13} - a_1 = 3d = 5 \Rightarrow d = 5/3 \checkmark$$

$$a_{13} + a_1 = 11d + a_1 + 9d + a_1 = 20d + 2a_1 = 20 \Rightarrow 5 \times 5 + 2a_1 = 20 \Rightarrow a_1 = 5/2$$

$$a_{11} = 10d + a_1 = 50 + 5/2 = 55.5 \checkmark \rightarrow$$

$$\left. \begin{aligned} a_1 + a_r + a_r + a_r + a_r &= a_r \\ a_r + a_v + a_n + a_q + a_1 &= a_n \end{aligned} \right\} \Rightarrow a_r = a_n \times \frac{1}{r}$$

$$r a_r = a_n \Rightarrow r(a_1 + d) = a_1 + v d$$

$$\Rightarrow r a_1 + r d = a_1 + v d \Rightarrow \underline{r a_1 = d}$$

$$\left. \begin{aligned} a_1 &= a_1 \\ a_r &= a_1 + d = a_1 + r a_1 = r a_1 \end{aligned} \right\} \frac{a_r}{a_1} = \frac{r a_1}{a_1} = r \rightarrow \text{بسط}$$

$$t_1 + (n-1)d = t_1 + (n-r)d + 1d \Rightarrow n d - d = n d - r d + 1d \Rightarrow \boxed{r d = 1d}$$

$$\boxed{d = a}$$

$$t_1^r - t_0^r = (t_1 + r d)^r - (t_1 + r_0 d)^r = t_1^r + r r_0 t_1 + 1 r_0 t_1 - t_1^r - r_0^r - r_0^r t_1 = 1 r_0 + r_0^r t_1$$

$$\frac{1 r_0 + r_0^r t_1}{t_1 + r d} = \frac{r_0 t_1 + 1 r_0}{t_1 + r_0} = \frac{r_0 (t_1 + r_0)}{t_1 + r_0} = r_0 \rightarrow \text{بسط}$$

$$\underline{t_v}$$

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

$$b = r + \sqrt{r}$$

$$d = \frac{b-a}{n+1} = \frac{r + \sqrt{r} - r + 1 \sqrt{r}}{13} = \frac{13 \sqrt{r}}{13} = \sqrt{r} \rightarrow \text{بسط}$$

$$d = \frac{r r - r}{r n - r + 1} = \frac{r_0}{r n - r} = \frac{1d}{r n - 1} \left\{ n^{\text{بسط}} = a_{n+1} = n d + a_1 \right.$$

$$\Rightarrow n \frac{1d}{r n - 1} + r = 1 \Rightarrow \frac{1 d n}{r n - 1} = 1 - r \Rightarrow 1 d n = 1 n n - 1 \Rightarrow \underline{r n = 1}$$

$$\boxed{n = 1} \rightarrow \text{بسط}$$

$$a_n + a_{n,r} = a_1 + (n-1)d + a_1 + (n+r)d = a_r + a_v \Rightarrow r a_1 + r n d + r d = r a_1 + n d$$

$$\Rightarrow r n d = 1 d \Rightarrow \boxed{n = 1} \left\{ a_1 = r a_1 \Rightarrow a_1 = r a_r \Rightarrow a_1 + v d = r(a_1 + r d) \right.$$

$$\Rightarrow a_1 + v d = r a_1 + r d \Rightarrow a_1 = -d \Rightarrow \underline{a_1 + d = 0}$$

$$\underline{a_r}$$

$$\boxed{r = 1}$$