

آزمون پاور عسکری

Subject:

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$$a_1 = 40$$

$$a_n = a_1 + (n-1)d = 41 \rightarrow a_1 + 3d = 41 \xrightarrow{\text{آخری عدد}} 40 + 3d = 41$$

$$\rightarrow 3d = 41 - 40 \rightarrow 3d = 1 \rightarrow d = \frac{1}{3}$$

$$a_n = a_1 + (n-1)d \rightarrow a_1 + nd - d \xrightarrow{\text{جایگذاری}} 40 + 7(n) - \frac{1}{3} = 201$$

$$\rightarrow 141 = 7n - \frac{1}{3} \rightarrow 141\frac{1}{3} = 7n \rightarrow n = 20\frac{1}{3}$$

۲- در این سوال از فرمول $a_n = a_1 + (n-1)d$ استفاده می‌کنیم

$$\text{عدد اول پیدا شد} \rightarrow \begin{array}{r} 101 \\ 14 \overline{) 101} \\ \underline{140} \\ 61 \end{array} \xrightarrow{\text{باقی‌مانده ۶۱}} \begin{array}{r} 101 \\ 14 \overline{) 101} \\ \underline{140} \\ 61 \end{array} \xrightarrow{\text{باقی‌مانده ۶۱}}$$

$$\text{عدد آخری پیدا شد} \rightarrow \begin{array}{r} 999 \\ 14 \overline{) 999} \\ \underline{140} \\ 859 \end{array} \xrightarrow{\text{باقی‌مانده ۸۵۹}} \begin{array}{r} 999 \\ 14 \overline{) 999} \\ \underline{140} \\ 859 \end{array} \xrightarrow{\text{باقی‌مانده ۸۵۹}}$$

حال ۷ اسب زیرا در اصل داریم $7+3$ و $14+3$ و $21+3$ و ...

$$\xrightarrow{\text{فاصله}} \frac{999 - 101}{7} + 1 = \sqrt{1296}$$

$$a_{n+1} + a_{n+2} + a_{n+3} \xrightarrow{\text{در اینجا هم می‌تواند د جواب دهد}} a_n = a_1 + d, a_{n+1} = a_1 + 2d, a_{n+2} = a_1 + 3d$$

$$3a_n + 4d = -4n + 12$$

$$\xrightarrow{n=1} 3a_1 + 4d = -4(1) + 12 \rightarrow 3a_1 + 4d = 8$$

$$\rightarrow a_1 + 2d = 2 \rightarrow \underline{a_1 = 2}$$

$$\xrightarrow{n=2} 3a_2 + 4d = -4(2) + 12 \rightarrow 3(2) + 4d = -4$$

$$\rightarrow 4d = -12 \rightarrow \underline{d = -3} \text{ و } \underline{a_1 = 2}$$

$$a_n = a_1 + (n-1)d = 2 + (n-1)(-3) = -n$$

$$a_{15} = a_1 + 14d = 2 + 14(-3) = -40 \rightarrow -1 + -40 = -41$$

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آزین پور علی

$$a_1 - a_r = 2d \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \rightarrow r b = a + c \quad -\varepsilon$$

$$a_r - a_1 = 2d$$

$$\rightarrow r^m - r + r^m - 1 = r^{n+1} \rightarrow r^m (r+1) - \varepsilon = r^{n+1}$$

$$\rightarrow r^m + 1 - \varepsilon = r^m \rightarrow r^m + 1 = 1 \rightarrow r^m = 0$$

$$\rightarrow r^m - r + r^{n+1} + r^m - 1 = r^m \left(\frac{r^m}{r} + \frac{r^{n+1}}{r} + 1 \right) - \varepsilon$$

$$\rightarrow r^m - \varepsilon = 144$$

$$a_1 + 11d - a_1 - 9d = 2d = 2 \rightarrow d = 1, 0 \quad -\omega$$

$$a_1 + 11d + a_1 + 9d = 2a_1 + 20d = 2a \rightarrow 2a_1 = -2a$$

$$a_1 = -1r/0 \rightarrow a_{11} = a_1 + 10d = \frac{10 \cdot 1}{0}$$

$$r \times (a_1 + a_r + a_r + a_r + a_r) = a_1 + a_r + a_r + a_r + a_r \cdot 4$$

$$\rightarrow r(a_1 + 11d) = (a_1 + 11d) \rightarrow r a_1 + 4d = a_1 + 11d$$

$$r a_1 - a_1 = 0 \rightarrow r a_1 = a_1$$

$$\rightarrow \frac{a_r}{a_1} = \frac{a_1 + d}{a_1} \rightarrow \frac{1}{1} = \frac{1}{1}$$

$$d = 1 \quad -v$$

$$t_n = t_{n-1} + 1 \rightarrow t_{11} = t_9 + 1 \rightarrow t_9 = t_{11} - 1$$

$$t_1 = t_a + 1 \rightarrow t_a = t_{11} - 1$$

$$t_{11} - t_9 = 2d = 1 \rightarrow d = 1/2$$

$$\rightarrow (t_9 + t_a) (t_9 - t_a) \rightarrow \frac{r(t_9 + t_a)}{t_v}$$

$$\frac{\varepsilon \cdot t_v}{t_v} = \frac{1}{2} \varepsilon$$

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آذین پور سرتی

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از فرد اول استعاره $\rightarrow d = \frac{b-a}{n+1} \rightarrow \frac{2+\sqrt{3}-2}{13} = \frac{\sqrt{3}}{13}$ -1

$\boxed{\sqrt{3}}$

با فرد دوم $\rightarrow \frac{32-2}{5n+2} = d \cdot \frac{9}{n} \rightarrow$ -9

$a_{n+1} = 11 \rightarrow a_n + d = 11 \rightarrow a_1 + nd = 11 \rightarrow d = \frac{11-a_1}{n}$

$\rightarrow \frac{3}{5n+2} = \frac{9}{n} \rightarrow 3 \cdot n = 9(5n+2) \rightarrow 4n = -18 \rightarrow n = -\frac{9}{2}$

$a_{17} + a_{17} = a_n + a_{n+2} \rightarrow n = 17$ -10

$a_{17} = 3(a_1) \rightarrow a_1 + 16d = 3(a_1 + 16d) \rightarrow a_1 + 16d = 3a_1 + 48d$

$2a_1 + 32d = 0 \rightarrow a_1 + 16d = 0$ $\boxed{a_1 + 16d = 0}$ $\boxed{\text{جواب نهایی}}$

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