

$f_{0+1} = f_1$ (ب)

$a_n = f_{n+1}$ (ب) (1)

→ 11A

$t_{1/2}, t_{3/2}, t_{5/2}, t_{7/2} = \dots$ (ب)

$S_n = \frac{10}{r} \left(\frac{r \times 5}{r} + 5 \right) = 2f_0$ (ب) (2)

$$S_{10} = \frac{r}{r} \left(\frac{r \times 11A}{r} + \frac{r \times 10}{r} \right) = 495$$

$1 + \sqrt{r}, r, r - \sqrt{r}, \dots$
 $\frac{1 + \sqrt{r}}{1 - \sqrt{r}} \quad \frac{r}{1 - \sqrt{r}}$

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

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

$1 + \sqrt{r} + n - 1 - \sqrt{r}n + \sqrt{r}$

$a_n = 2\sqrt{r} + n - \sqrt{r}n$

$t_{1/2} = 2\sqrt{r} + 2r - 2\sqrt{r} = 2r - 2\sqrt{r}$

$t_{3/2} = 2\sqrt{r} + 2r - 4\sqrt{r} = 2r - 2\sqrt{r}$

$\left. \begin{matrix} t_{1/2} \\ t_{3/2} \end{matrix} \right\} \text{GMS} = 2\sqrt{r} - 2$

$a_n = a^x, r \times a^x, a^x$

$r \times a^x = \frac{a^x + a^x}{r}$ (4)

$b_n = x, r, x$

$r = \frac{x + x}{r} \Rightarrow x + x = r$ $\text{GMS} \left[x = \frac{r}{2} \right]$

$r \times a^x = 1 + a^{r-x} \Rightarrow r = 2a$

$x = \frac{r}{2}$ $\text{GMS} \left[x = \frac{r}{2} \right]$

$a \times x = (r)$

$\frac{r \times r - r + r}{r} = r - 1 \rightarrow r \times r + r - r = r \times r - r$

$r \times r = r \rightarrow r = \frac{1}{r}$

$a_n = -r, 0, r$ (5)

$$\begin{aligned}
 a_n &= \underbrace{r}_r, \underbrace{r+d}_r, \underbrace{r+2d}_r, \dots \\
 b_n &= \underbrace{r}_r, \underbrace{r+d}_r, \underbrace{r+2d}_r, \dots
 \end{aligned}
 \left. \begin{array}{l} \\ \\ \end{array} \right\} \begin{array}{l} \alpha_n = sn + a \\ \text{مجموعه اولیها} = \{1, 17, \dots, 141\} \\ \text{دومیها} = \{11, 17, \dots, 141\} \end{array} \longrightarrow \text{نوع } S \quad (6)$$

$$d = r \times r = 6$$

$$a_{r_0} = 141 \quad \text{و} \quad b_{r_0} = 109$$

$$\begin{aligned}
 a_1 + a_3 + a_{17} &= 141 \rightarrow a_1 + a_1 + d + a_1 + 16d = 141 \xrightarrow{\times -} (3a_1 + 16d = 141) \\
 a_1 + a_r + a_{10} &= 109 \rightarrow a_1 + a_1 + rd + a_1 + 9d = 109 \xrightarrow{\times -} (3a_1 + 9d = 109)
 \end{aligned} \quad (7)$$

$$\begin{aligned}
 a_r - a_3 + a_1 &= 9 \\
 a_1 + rd - a_1 - d + a_1 &= a_1 + d = (7) \rightarrow \frac{7}{-11} = \left(-\frac{1}{11} \cdot 141\right) \\
 & \qquad \qquad \qquad r_d = 141 \Rightarrow d = \left(\frac{141}{11}\right) \\
 & \qquad \qquad \qquad a_1 = \left(-\frac{141}{11}\right)
 \end{aligned}$$

$$\begin{aligned}
 r \rightarrow a_1 + a_3 + a_r \\
 S_r &= 109 \rightarrow \frac{r}{2} (2a_1 + rd) = 109 \\
 r \rightarrow a_r + a_{10} \\
 S_r &= 141 \rightarrow \frac{r}{2} (r a_1 + d) = 141 \\
 -2a_1 &= -109 \\
 a_1 &= 54.5, \quad d = -109 \\
 -2a_1 + rd &= -109
 \end{aligned} \quad (8)$$

$$\begin{aligned}
 a_n &= -109n + 54.5 \\
 a_{10} &= -1090 + 54.5 = -1035.5
 \end{aligned}$$

$$\begin{aligned}
 S_9 &= \frac{9}{2} (2a_1 + 16d) = 9a_1 + 72d \\
 S_r &= \frac{r}{2} (2a_1 + rd) = r a_1 + \frac{r^2 d}{2} \\
 \Rightarrow S_9 &= 9 S_r \Rightarrow 9a_1 + 72d = 9r a_1 + \frac{9r^2 d}{2} \\
 9d &= 18a_1 \\
 \boxed{a_1} &= \frac{1}{2}d, \quad \boxed{d} = 2a_1
 \end{aligned} \quad (9)$$

$$\begin{aligned}
 a_{r_0} &= a_1 + 19d = 19a_1 \\
 a_v &= a_1 + 5d = 13a_1 \\
 \Rightarrow \frac{19a_1}{13a_1} &= \left(\frac{19}{13}\right)
 \end{aligned}$$

Arman

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$$\alpha_1 = 11$$

$$\alpha_1 = 11 \Rightarrow \alpha_1 + 5d = 11$$

$$C_{10} = 11n + 1$$

(10)

$$\rightarrow \alpha_1 = 11$$

$$5d = 11 - 11 \rightarrow d = 0$$

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$$\alpha_1 = 11$$

$$\alpha_1 = 11 \Rightarrow \alpha_1 + 3d = 11$$

$$C_{10} = -2n + 11$$

$$\rightarrow -2n + 11 = 11$$

$$3d = 11 - 11 \rightarrow d = 0$$

$$-2n = 0 \rightarrow n = 0$$

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بین جواب اول تا ششم $\frac{11}{5}$ با کسرهای صحیح وجود دارد.