

$\frac{a_2}{q}, a_2, a_2 q$  (۲)

$Sum = \frac{a_2 + a_2 q + a_2 q^2}{q} = 21 \Rightarrow \frac{2 + 2q + 2q^2}{q} = 21$

$\Rightarrow 2 + 2q + 2q^2 = 21q \Rightarrow 2q^2 - 19q + 2 = 0$

$\Rightarrow a_2 = 2 \Rightarrow a_2 = 2$  (۱)

$b^2 = ac$  جواب صفحه آخر ...

$2m^2 = n^2 + 2n^2 - 1$  (۱)

$2m^2 = 3n^2 - 1 \Rightarrow n = 2$  (۲)

$\Rightarrow 2, 4, 1 \Rightarrow q = 2$  (۳)

ی تو نیم بنایم معادله را درجه ۲ حل کنیم ولی بنایم از خلاصت استفاده کنیم!

$a_1 + a_1 q + \dots + a_1 q^{\omega}$  (۲)

$= a_1 (1 + q + q^2 + \dots + q^{\omega}) = a_1 \times \frac{1 - q^{\omega+1}}{1 - q} = 121 \times \frac{1 - 2^{\omega+1}}{1 - 2} = 121 \times (2^{\omega+1} - 1)$  (۳)

$q^{\omega+1} = 91^2$   $q = -2 \rightarrow B = -1 \rightarrow A+B = 2f, \omega$  (۴, ۵)

$\Rightarrow q = 2 \Rightarrow A = 1 \times 2^{\omega} = 1$  (۴)

$(\omega+1)d = 91^2 - 1$  (۵)

$\Rightarrow d = 10, \omega = 1 \Rightarrow B = 1 + (-1) \times 1, \omega = 12, \omega$

$\frac{-99}{2}, \frac{-95}{2}, \dots$  (۲)

$d = \frac{1}{2}$  (۵)

$\Rightarrow a_{1.1} = -100 + 1 \times \frac{1}{2} = 1 \Rightarrow q = \frac{1}{2}$  (۲)

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| $a_1 + 2d, a_1 + 4d, a_1 + 8d$ $(a_1 + 4d)^2 = (a_1 + 2d)(a_1 + 8d)$ $a_1^2 + 1 \cancel{a_1 d} + 4d^2 = a_1^2 + 1 \cancel{a_1 d} + 16d^2$ $4a_1 d = -16d^2 \Rightarrow a_1 = -4d \Rightarrow d = 0$ <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> <math>d = -\frac{a_1}{4}</math> </div> <p>جواب: حرفاً از مقایسه یونین مجلات نتیجه!!</p>                                                                                                                                                                             | <div style="border: 1px solid red; border-radius: 50%; padding: 5px; text-align: center;">1, 5</div> <div style="text-align: center;">6</div>  |
| $a_1 + d, a_1 + 2d, a_1 + 3d \Rightarrow a_1, 2a_1, 3a_1 \Rightarrow q = 2$ <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <math>\downarrow</math><br/>a </div> <div style="text-align: center;"> <math>\downarrow</math><br/>aqr </div> <div style="text-align: center;"> <math>\downarrow</math><br/>aqr^2 </div> </div> $\Rightarrow a_1 = \frac{1}{q} \times 2 = 2^k = 128$ $q = \frac{a_1 + 2d}{a_1 + d} = \frac{a_1 + 3d}{a_1 + 2d} \Rightarrow a_1^2 + 4a_1 d + 4d^2 = a_1^2 + 6a_1 d + 9d^2$ | <div style="border: 1px solid red; border-radius: 50%; padding: 5px; text-align: center;">2</div> <div style="text-align: center;">7</div>     |
| $a_1, q, a_1 q^2, a_1 q^3 \Rightarrow q = 3$ $a_1, q, 2a_1 q^2, a_1 q^3 \Rightarrow q = 2 \text{ و } 15 = (q-2)(q-1) = 12$ $3a_1 q^2 = 15a_1 q \Rightarrow 3q = 15 \Rightarrow q = 5$                                                                                                                                                                                                                                                                                                                                                                                    | <div style="border: 1px solid red; border-radius: 50%; padding: 5px; text-align: center;">2</div> <div style="text-align: center;">8</div>     |
| $a_n = \frac{-n+4}{2}$ $a_2 = +\frac{1}{2}$ $a_3 = +\frac{1}{2}$ $a_{13} = \frac{13}{2}$ $\frac{a+2m}{2}, \frac{1+2m}{2}, \frac{-2+2m}{2}$ $19m^2 + 12m + 1 = 19m^2 + 12m - 1$ $2 = 0 \Rightarrow m = -\frac{1}{19}$ $\Rightarrow a = \frac{-1}{19}$ <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> <math>q = \frac{a}{r}</math> </div>                                                                                                                                                                                | <div style="border: 1px solid red; border-radius: 50%; padding: 5px; text-align: center;">2</div> <div style="text-align: center;">9</div>     |
| $a_1, a, aq^2, aq^4$ $a_1, a_1 + d, a_1 + 4d \Rightarrow a_1^2 + 4a_1 d = a_1^2 + 4a_1 d + d^2$ $4a_1 d = d^2 \Rightarrow 4a_1 = d$ $Sum = 10a_1 + 10d = 10^2$ $40a_1 = 100 \Rightarrow a_1 = 2.5, d = 10$                                                                                                                                                                                                                                                                                                                                                               | <div style="border: 1px solid red; border-radius: 50%; padding: 5px; text-align: center;">1, 5</div> <div style="text-align: center;">10</div> |

حالت دوم  
(بنا به ثابت)  $\rightarrow q = 1$  d = 0

$$\begin{cases} u = r \rightarrow \wedge, f, r \checkmark \\ u = -r \rightarrow \wedge, -f, r \times \end{cases}$$

$r$

$$S_v = \frac{\wedge \left(1 - \left(\frac{1}{r}\right)^v\right)}{\frac{1}{r}} = \frac{rv}{\wedge}$$