

Subject:

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$$\begin{aligned} x + 2x + 2x &= 21 \rightarrow \frac{x}{2} + x + 2x = 21 \rightarrow \frac{x}{2} + 3x = 21 \\ \frac{x}{2} + 3x &= 21 \rightarrow \frac{x + 6x}{2} = 21 \rightarrow \frac{7x}{2} = 21 \rightarrow 7x = 42 \rightarrow x = 6 \end{aligned}$$

$$\begin{aligned} x^2 + x + 2x + 2x &= 21 \rightarrow x^2 + 5x = 21 \rightarrow x^2 + 5x - 21 = 0 \\ (x+7)(x-3) &= 0 \rightarrow x = -7 \text{ or } x = 3 \end{aligned}$$

$$\begin{aligned} 11 \times 12 &= 132 \\ 132 &= 11 \times 12 \\ 132 &= 11 \times 12 \end{aligned}$$

$$\begin{aligned} a &= a + (n-1)d = -2f + (100)d = -2f + 100d = 1 \\ \frac{-90}{f} + \frac{99}{f} &= \frac{1}{f} \end{aligned}$$

$$\begin{aligned} a_1, a_2, a_3 &\rightarrow a + d, a + 2d, a + 3d \\ (a+d)(a+2d) &= a^2 + 3ad + 2d^2 \end{aligned}$$

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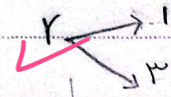
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$$r a_1, r a_2, a_3 \rightarrow r a_1, r a_2, a_3$$

(1, 1.5)

$$\frac{r a_1 + a_2}{r} = r a_1 \rightarrow r a_1 + a_2 = r a_1$$

$$a_2(r + r^2) = r a_1^2 \rightarrow r + r^2 = r \rightarrow r^2(r + 1) = 0$$



(دنباله فیبوناچی) غلط

$$\text{حالت دوم} \rightarrow (-1, -1, -1, 1.5) \rightarrow q = \frac{a_2}{a_1} = \frac{-1}{-1} = 1$$

$$a_1 + a_2, a_2 + a_3, a_3 + a_4$$

$$a_1 + 3d, a_2 + 4d, a_3 + 5d \rightarrow \frac{a_1}{r} + 3d, \frac{a_2}{r} + 4d, -1 + d \rightarrow (\frac{a_1}{r} + 3d)(d - 1) = \frac{1}{14} + \frac{1}{r} d + d^2$$

$$q = \frac{\frac{-1}{r}}{\frac{-1}{r}} = \frac{f_x(-1)}{f_x(-1)} = \frac{-1}{-1} = 1$$

$$h_1 = m_1$$

$$h_v \times h_1 = (h_1)^2 \Rightarrow m_1 \times m_1 = (m_1)^2$$

(1, 1.5)

$$h_2 = m_2$$

$$\Rightarrow (a + 4d) \times a = (a + d)^2 \Rightarrow v a = d$$

$$h_v = m_v$$

$$m_1 + m_2 + m_3 = v^2 \Rightarrow a + (a + 4d) + (a + 9d) = v^2$$

$$v^2 a = v^2 \rightarrow a = 1$$

$$d = v$$

حالات نزدماً متغیر خستید پس میتوانند ثابت باشند!

$$q = 1 \rightarrow r a = v^2 \rightarrow a = \frac{v^2}{r}$$

$$a q^2 - a = d \xrightarrow{q=1} \frac{v^2}{r} - \frac{v^2}{r} = 0 \rightarrow d = 0$$