

سه شنبه
۱۲ ارداد

کتابخانه
Week 20 Month 05
August 2021
3
سال اول 8

$$t_n = 0, 4, 14, 24, \dots$$

$$(1), (2), (3), (4), \dots$$

$$d = 4$$

الف) $a_n = a_1 + (n-1)d \rightarrow a_n = 0 + (n-1)(4) \rightarrow 0 + 4n - 4 \rightarrow 4n - 4$

$$4n - 4$$

ب) $n=1 \rightarrow 4n - 4 = 4(1) - 4 = 0$

$$t_n = 0, 4, 14, 24, \dots$$

$$d = 4, 4 = 4 \rightarrow a_n = 4 + (n-1)(4) = 4n$$

الف) $4 + 14 + 24 + 34 + 44 + 54 + 64 + 74 + 84 + 94 \rightarrow 490$

ب) $a_n = a_1 + (n-1)d$ جمله nام ✓

مجموع n جمله اول از دنباله

$$S_n = \frac{(a_1 + a_n) \times n}{2}$$

مجموع جمله 10 = 490, 41, 4, 49

$$t_1 + 18d + t_2 + 17d + t_3 + 16d + t_4 + 15d$$

$$5t + 118d = (5 \times 4) + (5 \times 118) = 20 + 590 = 610$$

$$118 + 142 + 102 + 62 + 22 = 454$$

سوال ۱

$$d = 1\sqrt{3}$$

$$t_1 = 1 + \sqrt{3} \rightarrow t_{23} = t_1 - \sqrt{3}d - t_1 - \sqrt{3}d$$

$$\rightarrow \sqrt{3}d - \sqrt{3}d(1 - \sqrt{3}) \rightarrow \sqrt{3} - \sqrt{3}\sqrt{3}$$

$$a_{10} = \sqrt{10} \rightarrow \sqrt{10} \sqrt{3} = \sqrt{30}$$

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$$a_n = \sqrt{n}, \sqrt{2n}, \sqrt{3n}, \dots$$

$$b_n = \sqrt{n}, \sqrt{2n}, \sqrt{3n}, \dots$$

$$a_n = \sqrt{n} \rightarrow \frac{\sqrt{n}}{\sqrt{2n}} = \frac{1}{\sqrt{2}} \rightarrow \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \rightarrow \sqrt{2} = 1.414$$

$$b_n = \sqrt{n}, \sqrt{2n}, \sqrt{3n}, \dots$$

$$\sqrt{2} = 1.414$$

$$a_n = \sqrt{n} \rightarrow \sqrt{1} = 1$$

سوال ۵

۱۴ $\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$

$2n+1, 2n-1, 4n, \dots$

$4n = 2n-1+2n$

$4n = 2n+2 \rightarrow 2n = 2$

$4n = 2n+2 \rightarrow n = 1$

$2n = 2 \times 1 = 2$

$4n = 2 + 2 = 4$

$4 = 2 + 2 = 4$

موضوع و تکوین بازار ششگانه - صدور فرمان مشروطیت (۱۲۸۵ هـ ش) - روز حقوق بشر اسلامی و کرامت انسانی

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سوال ۵

$2n+1, 2n-1, 4n, \dots$

$4n = 2n-1+2n$

$4n = 2n+2 \rightarrow 2n = 2$

$4n = 2n+2 \rightarrow n = 1$

$2n = 2 \times 1 = 2$

$4n = 2 + 2 = 4$

$4 = 2 + 2 = 4$

$4 = 2 + 2 = 4$

معادله پنجم: $a_1 + a_2 + a_3 = 11 \rightarrow 3a_2 = 11 \rightarrow a_2 = \frac{11}{3}$

$a_1 + a_2 + a_3 = 11 \rightarrow \frac{a_1 + d}{a_1} + \frac{a_2 + d}{a_2} + \frac{a_3 + d}{a_3} = 11$

$a_2 = a_2 + d = 11 + \frac{11}{3} = \frac{44}{3}$

$a_2 = 11, a_1 = 11 - \frac{11}{3} = \frac{22}{3}$

$a_2 - a_1 + a = \frac{11}{3} - \frac{22}{3} + \frac{11}{3} = 0$

$a_1 = \frac{11}{3}, a_2 = \frac{22}{3}, a_3 = \frac{33}{3} = 11$

معادله ششم: $a_1 + a_2 + a_3 = 11$
 $a_1 + a_2 + a_3 = 11$
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سہ ماہیہ
م (د) 19

$$a_1 + r = a \rightarrow a_1 = r$$

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

$$a_1 = a_1 + 9d$$

$$a_1 = r + 9(r)$$

$$a_1 = r + 9r \rightarrow a_1 = 10r$$

مطلوبہ

$$\times \frac{r}{9} \left(\frac{9}{r} (a_1 + a_n) \right) = \frac{r}{9} (10r + 9r)$$

$$a_1 + a_9 \rightarrow 10r + 9ar$$

$$a_1 + a_9 + 18d = 10r + 9ar + 18d$$

$$18d = 18a$$

$$d = 1a \rightarrow \frac{dr}{ar} = \frac{a_1 + 19d}{a_1 + 4d} = \frac{19a}{13a}$$

$$a_1 = 11 \rightarrow a_1 + 4d = 19 \rightarrow d = 2$$

$$a_1 = 11 \rightarrow a_1 + 4d = 19 \rightarrow d = 2$$

$$a_1 + ar +$$

$$a_1 + ar$$

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$$a_1 + ar$$

$$a_1 + ar$$

$$a_1 = 11$$

$$a_2 = 12$$

$$a_n = a_1 + (n-1)d \rightarrow 12 = 11 + (n-1)d \rightarrow d = 1$$

$$12 = 11 - \omega(n-1) \rightarrow 12 = 11 - \omega(n-1) + \omega$$

$$12 = 11 - \omega(n-1)$$

$$-\omega(n-1) = 1$$

از این رابطه داریم:

$$n = 4$$