

$$+n = 5, 9, 13, 17, \dots$$

$$+n = 5n + 1$$

$$+n = 5n - 5$$

$$+n = (n-1)5$$

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

$$+n = 5n + 1$$

$$+n = 6, 10, 14, 18, \dots$$

$$+n = 4n + 2$$

$$S_1 = \frac{1}{2} (5 + 5) = 5 \rightarrow S_1 = 5$$

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

$$+n = 29 \times 5 + 2 = 147 + 2 = 149$$

$$+n = 34 \times 5 + 2 = 170 + 2 = 172$$

$$\frac{n}{2} (a_1 + a_n) \rightarrow \frac{5}{2} (149 + 172) = 495$$

$$\frac{1 + \sqrt{3}}{1 - \sqrt{3}} + \frac{2}{1 - \sqrt{3}}$$

$$+n = n(1 - \sqrt{3}) + 2\sqrt{3}$$

$$\frac{(1 + \sqrt{3})}{1 + \sqrt{3}} + \frac{n(1 - \sqrt{3})}{1 + \sqrt{3}} + \frac{2\sqrt{3}}{1 + \sqrt{3}} = \frac{n(1 - \sqrt{3}) + 2\sqrt{3}}{1 + \sqrt{3}}$$

$$+n = 23(1 - \sqrt{3}) + 2\sqrt{3} = 23 - 23\sqrt{3} + 2\sqrt{3} = 23 - 21\sqrt{3}$$

$$+n = 25(1 - \sqrt{3}) + 2\sqrt{3} = 25 - 25\sqrt{3} + 2\sqrt{3} = 25 - 23\sqrt{3} \rightarrow \boxed{2 - 2\sqrt{3}}$$

$$a_n = 2^x, 3^x, 4^x, \dots$$

$$3^x \cdot 2^x - 2^x = 2^x \cdot 3^x$$

$$\rightarrow 3^x \cdot 2^x + 2^x \cdot 3^x = 2^x \cdot 3^x + 2^x \cdot 3^x = 2^x \cdot 3^x \rightarrow 2^x + 1 = 3$$

$$(x+1) \cdot 2 = 2 \cdot 2^x + 2$$

$$b_n = x, y \rightarrow x + y = x + 1 \rightarrow x + y = 1 \rightarrow y = -x + 1$$

$$x \cdot y = x \cdot (-x + 1) = -x^2 + x$$

$$(2x - 1) + (4x) = 2x(2x - 1)$$

$$2x - 1 = 2x - 1$$

$$2x - 1 = 2x$$

$$2x = 2 \rightarrow x = 1$$

$$\rightarrow -\frac{1}{2} \cdot 0 + \frac{1}{2} \rightarrow \frac{1}{2}$$

شماره ۶

$$a_n = 1, 2, 3, \dots, n-1 \rightarrow \Delta a_n = 1$$

$$b_n = 1, 2, 3, \dots, n-1 \rightarrow \Delta b_n = 1$$

$$a_n = \frac{1}{n} \rightarrow \Delta a_n = -\frac{1}{n^2}$$

$$b_n = \frac{1}{n} \rightarrow \Delta b_n = -\frac{1}{n^2}$$

$$a_1 + a_2 + \dots + a_n = \frac{1}{n} \rightarrow a_1 + (a_1 + \Delta a_1) + \dots + (a_1 + (n-1)\Delta a_1) = \frac{1}{n} \Rightarrow a_1 + d = \frac{1}{n}$$

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$$\frac{1}{n} [a_1 + a_2] = \frac{1}{n} [a_1 + a_2]$$

$$a_1 + a_2 = \frac{1}{n} (a_1 + a_2)$$

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$$a_1 + a_2 = \frac{1}{n} (a_1 + a_2) \rightarrow a_1 + a_2 = \frac{1}{n} (a_1 + a_2)$$

$$a_1 + a_2 = \frac{1}{n} (a_1 + a_2)$$

$$\frac{35 - 11}{\sqrt{-1}} = \frac{24}{4} = +4$$

→ 11 و 15 و 19 و 23
جمله های اولی

- 1.

جمله / جمله دوم / جمله اول
 $d \cdot 3 + 31 = 43$
 $d = 5$ (مستقیم)

تعدادی
بین = x

$$\rightarrow \frac{+13 - 31}{1+x} = -5$$

$$\rightarrow -28 = -5 - 5x$$

$$-28 + 5 = -5x \rightarrow -23 = -5x$$

$$x = +4$$

13 و 18 و 23 و 28 و 33 و 38
4 3 2 1

میانگین می توانیم بنویسیم .