

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

$$+n = 5n + 1$$

$$+n = (n-1)d \quad +n = (n-1)5 \quad +n = 5n + 1$$

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

$$+n = 4n + 2$$

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

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

$$+n = 29 \times 5 + 1 = 145 + 1 = 146$$

$$+n = 34 \times 5 + 1 = 170 + 1 = 171$$

$$\frac{n}{2} (a_1 + a_n) \rightarrow \frac{5}{2} (118 + 170) = 295$$

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

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

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

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

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

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

$$3^x \cdot 2^x = 6^x = 2^x \cdot 3^x$$

$$\rightarrow 3^x \cdot 2^x \cdot 2^x = 3^x \cdot 2^{2x} = 3^x \cdot 2^x \cdot 2^x = 3^x \cdot 2^x \cdot 2^x = 3^x \cdot 2^{x+1} = y$$

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

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

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

$$(2x - 5) + (4x) = 2x(2x - 1)$$

$$2x - 5 = 2x - 1$$

$$2x - 5 = 2x - 1$$

$$2x = 4 \rightarrow x = 2$$

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

شماره ۶

$$a_n = 1, 2, 3, \dots, n-1, n \rightarrow \Delta p_1, \dots \rightarrow n-1$$

$$b_n = 1, 2, 3, \dots, n-1, n \rightarrow \Delta p_1, \dots \rightarrow n-1$$

$$a_p = \frac{p-1}{p}$$

$$b_p = \frac{p-1}{p} \rightarrow n-1 \leq p \rightarrow n \leq p \rightarrow \frac{p-1}{p} = n$$

$$a_1 + a_p + a_n = p_1 \rightarrow a_1 + (a_1 + p_1) + (a_1 + p_1) = 3a_1 + 2p_1 = p_1 \Rightarrow a_1 + p_1 = 0$$

$$a_1 + a_p + a_n = 10 \rightarrow a_1 + (a_1 + p_1) + (a_1 + p_1) = 3a_1 + 2p_1 = 10 \Rightarrow a_1 + p_1 = \frac{10}{3}$$

$$a_1 + p_1 = 10 \Rightarrow a_1 + p_1 = 10$$

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$$a_1 + a_p + a_n = 10 \Rightarrow a_1 + (a_1 + p_1) + (a_1 + p_1) = 3a_1 + 2p_1 = 10$$

$$a_1 + p_1 = 10 \Rightarrow a_1 + p_1 = 10$$

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$$\frac{p}{p} [a_1 + a_1] = \frac{p}{p} [a_1 + a_1]$$

$$a_1 + a_1 = p(a_1 + a_1)$$

$$a_1 + p_1 = 10 \Rightarrow a_1 + p_1 = 10$$

$$\frac{p}{p} [a_1 + a_1] = \frac{p}{p} [a_1 + a_1]$$

$$a_1 + (a_1 + p_1) = p[a_1 + (a_1 + p_1)] \rightarrow 2a_1 + p_1 = p(a_1 + p_1)$$

$$a_1 + p_1 = 10 \Rightarrow a_1 + p_1 = 10$$

$$\frac{35 - 11}{\sqrt{-1}} = \frac{24}{4} = +6$$

→ 11 و 15 و 19 و 23
جمله های اولی

1. - جمله
/ جمله 2 و جمله 3
→ $d \cdot 3 + 31 = 43$
 $d = 5$ (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 17 و 21 و 25 و 29 و 33 و 37
4 3 2 1

میانگین می توانیم بنویسیم .