

$$\begin{array}{ccccccc} 0 & 1 & 2 & 3 & 4 & 5 & 6 \\ \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow \\ +1 & +2 & +3 & +4 & +5 & +6 & +7 \\ \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow \\ +3 & +3 & +3 & +3 & +3 & +3 & +3 \end{array}$$

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$$1,5 n^2 - 0,5 n = (1,5 \times 100) - (0,5 \times 10) = 150 - 5 = 145$$

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جدول دوم

$$\begin{aligned} \frac{1}{r} n^2 - \frac{1}{r} n + 0 &= \frac{n^2 - n}{r} = \frac{n(n-1)}{r} \\ \frac{n(n-1)}{r} &= 55 \quad n(n-1) = 110 \Rightarrow n = 11 \end{aligned}$$

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$$\begin{array}{c|ccc} 0 & 1 & 2 & 3 \\ \hline 1 & 1 & 3 & 6 \\ 2 & 1 & 4 & 10 \end{array} \quad \begin{aligned} 1n - 3 &\Rightarrow 1(11) - 3 = 8 \\ 2n + 1 &\Rightarrow 2(11) + 1 = 23 \end{aligned}$$

$$8 + 23 = 31$$

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$$-1 \text{ و } \frac{1}{r} \text{ و } \frac{-1}{r} \text{ و } \frac{1}{r} \text{ و } \frac{-1}{r} \text{ و } \dots$$

تفاوت بین جمله  $\frac{1}{r}$  است و کمترین  $\frac{-1}{r}$  است

$$\frac{1}{r} - (-1) = \frac{3}{r}$$

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$$b^3 = (-3)^3 - v(3) = -27$$

$$a_k = -5k + 22$$

$$-27 = -5k + 22$$

$$-5k = -27 - 22 = -49 \Rightarrow k = 9.8$$

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$$t_{10} - t_V = 12$$

$$10a + b - (Va + b) = 12a = 12 \Rightarrow a = 1$$

$$t_4 - t_1 = 4a + b - (a + b) = 3a = 10 \quad \text{f}$$

$$\begin{cases} t_V = 1a + b = V \\ t_F = 1a + b = 10 \end{cases} \Rightarrow \begin{cases} a = 1 \\ b = -1 \end{cases}$$

$$t_1 = a + b = 1 - 1 = 0$$

$$t_V = 1a + b = 11$$

$$b_n \begin{cases} t_1 = 1 = a + b \\ t_V = 11 = 1a + b \end{cases} \Rightarrow \begin{cases} a = 1 \\ b = -10 \end{cases}$$

$$\boxed{b_n = 1n - 10}$$

$$\text{Vorgabe} = \frac{\text{Zuweisungs}}{\text{Zuweisungs}} = \frac{1n - 1}{1n + 1}$$

def 4

$$\begin{array}{ccccccc} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow \\ +1 & +2 & +3 & +4 & +5 & +6 & +7 \end{array}$$

$$1n - 1$$

$$\begin{array}{ccccccc} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow & \rightarrow \\ +1 & +2 & +3 & +4 & +5 & +6 & +7 \end{array}$$

$$1n + 1$$

$$\frac{1n - 1}{1n + 1} < \frac{1}{2}$$

$$n = 1, 2, 3, 4, 5, 6, 7$$

$$\begin{cases} 1n - 1 < 4n + 9 \\ 1n < 13 \end{cases} \Rightarrow n < \frac{13}{1} = 13$$

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$$\Rightarrow -1, 1n^2 + 1, 1n$$

$$A = -1, 1 \quad B = 1, 1$$

$$1A + 1B = 1(-1, 1) + 1(1, 1) = \boxed{0, 2}$$

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$$1n^2 - 1n - 4$$

$$\begin{cases} t_V = 1a + b = 11 \\ t_F = 1a + b = 11 \end{cases} \Rightarrow \boxed{1n + 11}$$

$$1n^2 - 1n - 4 = 1n + 11$$

$$1n^2 - 1n - 15 = 0$$

$$(1n - 4)(1n + 15) = 0$$

$$1n = 4 \quad 1n = -15$$

reinde

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