

$$a_n > 0$$

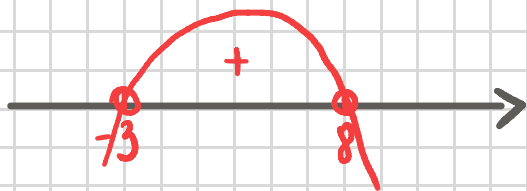
$$24 + 5n - n^2 > 0$$

$$-n^2 + 5n + 24 > 0$$

$$\Delta = (5)^2 - 4 \cdot (-1) \cdot 24 = 25 + 96 = 121 \quad \sqrt{\Delta} = \sqrt{121} = 11$$

$$n_1 = \frac{-5 - 11}{2(-1)} = \frac{-16}{-2} = 8$$

$$n_2 = \frac{-5 + 11}{2(-1)} = \frac{6}{-2} = -3$$



$$\begin{cases} n \in (-3, 8) \\ n \in \mathbb{N}_+ \end{cases} \Rightarrow n = \{1, 2, \dots, 7\}$$

Odp: 7 wyrazów tego ciągu jest dodatnie.