

Find the n^{th} term for the sequence
17, 14, 11, 8, 5

n^{th} term = _____

Find out what the sequence is going up to:

$$\begin{array}{ccccccc} 17 & 14 & 11 & 8 & 5 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ -3 & -3 & -3 & -3 & -3 \end{array}$$

The amount the sequence goes up to is the coefficient of n (the number before it)

$$-3n$$

Find the 0^{th} term

$$\begin{array}{ccccccc} 17 & 14 & 11 & 8 & 5 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 17 & 14 & 11 & 8 & 5 \end{array}$$

The 0^{th} term is added to the $-3n$ to make the n^{th} term

$$n^{\text{th}} \text{ term} = -3n + 20$$

Answer

$$-3n + 20$$

— GCSE Maths —
Complete



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