

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

n^{th} term = _____

Find out what the sequence is going up or down by.

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

The amount the sequence goes up or down by is the coefficient of n (the number before it).

$$-3n$$

Find the 0^{th} term.

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

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

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

Answer:

$$-3n + 20$$

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