

Example 5.

Given the following sequence, what is the 30th term?

10, 13, 16, 19, 22

Solution.

- 1. Find the common difference.**
- 2. Generate a formula that uses the variable n .**
- 3. Use the formula to find the n th term.**

The common difference is 3.

The n_0 term is 10.

The formula for generating terms is

$$a_n = 10 + (n - 1) \cdot 3$$

$$a_{30} = 10 + (30 - 1) \cdot 3$$

$$= 10 + 29 \cdot 3$$

$$= 97$$

Arithmetic Problems With Solutions

Scott C. Dulebohn



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