

Example; Arithmetic Sequence

Find the 12th term of the arithmetic sequence
20, 14, 8, 2, 4,

Step 1 Find the common difference: $d = 14 - 20 = -6$.

Step 2 Evaluate by using the formula.

$$a_n = a_1 + (n - 1)d \quad \text{General rule.}$$

$$a_n = 20 + (n - 1)(-6) \quad \text{Substitute in } a_1 \text{ and } d$$

$$a_n = 20 + -6n + 6 \quad \text{Distribute}$$

$$a_n = -6n + 26 \quad \text{Simplify}$$

$$a_{12} = -6(12) + 26 \quad \text{Substitute 12 for } n$$

$$a_{12} = -46$$

The 12th term is -46.

General Arithmetic Questions Answers

Rachel Sandford



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