

Geometric sequences

In a geometric sequence, each term is found by multiplying the previous term by a common ratio.

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Example

$$2, 4, 8, 16, 32, \dots$$

$\xrightarrow{\times 2}$ $\xrightarrow{\times 2}$ $\xrightarrow{\times 2}$ $\xrightarrow{\times 2}$

2 is the common ratio.

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- a) A geometric sequence has third term 81 and common ratio 3.

Write down the first five terms.

- b) A geometric sequence has n^{th} term 5^n .

Write down the first four terms.

Answers

- a) Second and first

Fourth and fifth

$$81 \div 3 = 27 \checkmark$$

$$81 \times 3 = 243 \checkmark$$

$$27 \div 3 = 9 \checkmark$$

$$243 \times 3 = 729 \checkmark$$

So the sequence is 9, 27, 81, 243, 729,...

- b) Substitute $n = 1, 2, 3, 4$ into 5^n .

$$n = 1 \rightarrow 5^1 = 5 \checkmark$$

$$n = 2 \rightarrow 5^2 = 5 \times 5 = 25 \checkmark$$

$$n = 3 \rightarrow 5^3 = 5 \times 5 \times 5 = 125 \checkmark$$

$$n = 4 \rightarrow 5^4 = 5 \times 5 \times 5 \times 5 = 625 \checkmark$$

So the sequence is 5, 25, 125, 625, ... with a common ratio of 5.

Note
Geometric sequences at GCSE have n^{th} terms of the form rn where r is the common ratio.



Geometric Sequences Worksheets With Answers

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