ARITHMETIC SEQUENCES

An arithmetic sequence has a common

difference

Example: 10, 15, 20, 25, 30, 35 ...

$$a_n = a_1 + (n-1)d$$

For each arithmetic sequence below, find the common difference, then write the next two terms of the sequence.

Write a rule for each arithmetic sequence. Then, use the rule to find the 10th term in the sequence.

$$3_{-11,-6,-1,4,9,...} a_{n} = -11 + (n-1)(5)$$

$$a_{1} = -11 + (11-1)(5)$$

GEOMETRIC SEQUE

A geometric sequence has a common

ratio

Example: 1, 5, 25, 125, 625, ...

For each geometric sequence below, find the common ratio, then write the next term of the sequence.

2, 8, 32, 128, ... 512

2 -5, 15, -45, 135, -405, ... 1215

Write a rule for each geometric sequence. Then, use the rule to find the 7th term in the sequence.

3 2, 12, 72, 432, ... 0₀=2/6

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