

Review for Mastery

Geometric Sequences

In a **geometric sequence**, each term is *multiplied* by the same number to get to the next term. This number is called the **common ratio**.



Determine if the sequence
2, 6, 18, 54, ... is a geometric sequence.

Divide each term by the term before it.

$$\frac{54}{18} = 3 \qquad \frac{18}{6} = 3 \qquad \frac{6}{2} = 3$$

This is a geometric sequence; 3 is the common ratio.

Find the next three terms in the geometric sequence 1, 4, 16, 64,

Step 1: Find the common ratio.

$$\frac{64}{16} = 4 \qquad \frac{16}{4} = 4 \qquad \frac{4}{1} = 4$$

Step 2: Continue to multiply by the common ratio.

$$64 \times 4 = 256 \qquad 256 \times 4 = 1024 \qquad 1024 \times 4 = 4096$$

The next three terms are 256, 1024, and 4096.

Determine if the sequence
5, 10, 15, 20, ... is a geometric sequence.

Divide each term by the term before it.

$$\frac{20}{15} = \frac{4}{3} \qquad \frac{15}{10} = \frac{3}{2} \qquad \frac{10}{5} = 2$$

This is not a geometric sequence; there is no common ratio.

Determine if each sequence is a geometric sequence. Explain.

1. 2, 4, 6, 8, ... _____
2. -4, 8, -16, 32, ... _____
3. 32, 16, 8, 4, ... _____

Find the common ratio in each geometric sequence below. Then find the next three terms.

4. 1, 5, 25, 125, ...

6. 4, 6, 9, 13.5, ...

5. -6, 12, -24, 48, ...

7. $\frac{1}{4}, \frac{1}{2}, 1, 2, \dots$

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