

Geometric Sequences

- 1) Given that a geometric sequence has $a_1 = 3$ and $r = 5$, find the first five terms in the sequence.
- 2) Given that a geometric sequence has $a_1 = -4$ and $r = 4$, find the first five terms in the sequence.
- 3) Given that a geometric sequence has $a_1 = 4$ and $r = 2$, find:

PREVIEW

- 6) Find the geometric sequence with $a_2 = 10$ and $a_5 = 80$.

Solutions

- 1) Given that a geometric sequence has $a_1 = 3$ and $r = 5$, find the first five terms in the sequence.

Each term after the first is found by multiplying the previous one by $r = 5$, thus

$$a_2 = 3 \cdot 5 = 15$$

$$a_3 = 15 \cdot 5 = 75$$

$$a_4 = 75 \cdot 5 = 375$$

$$a_5 = 375 \cdot 5 = 1875$$

The first five terms are: 3, 15, 75, 375, 1875.

- 2) Given that a geometric sequence has $a_1 = -4$ and $r = 4$, find the first five terms in the sequence.

Each term after the first is found by multiplying the previous one by $r = 4$, thus

$$a_2 = -4 \cdot 4 = -16$$

$$a_3 = -16 \cdot 4 = -64$$

$$a_4 = -64 \cdot 4 = -256$$

$$a_5 = -256 \cdot 4 = -1024$$

The first five terms are: -4, -16, -64, -256, 1024.

- 3) Given that a geometric sequence has $a_1 = 4$ and $r = 2$, find:

a. a_5

We use the formula $a_n = a_1 r^{n-1}$.

$$a_5 = 4 \cdot 2^{5-1}$$

$$= 4 \cdot 2^4$$

$$= 4 \cdot 16$$

$$= 64$$

b. a_7

$$a_7 = 4 \cdot 2^{7-1}$$

$$= 4 \cdot 2^6$$

$$= 4 \cdot 16$$

$$= 64$$

Geometric Series 9 3 Answers

Cynthia Y. Young



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