

More Practice: Geometric Sequences

What are the next 3 terms in the sequence and find the common ratio for the sequence:

1. 6, 12, 24, _____, _____, _____ Common ratio =

2. 6, 1.8, 0.54, _____, _____, _____ Common ratio =

3. 5, -10, 20, _____, _____, _____ Common ratio =

Write the first four terms of the given sequence:

4. $a_n = 0.5 \cdot 2^{n-1}$

5. $a_n = 3 \cdot (0.1)^{n-1}$

Write the explicit formula for the given sequences:

6. 7, 49, 343, ...

7. $\frac{1}{63}, \frac{1}{21}, \frac{1}{7}, \dots$

8. 0.46, 0.92, 1.84, ...

Find the given term of the geometric sequence.

9. $a_1 = 3, r = 4, n = 8$

10. $a_1 = 0.6, r = 3, n = 17$

11. $a_1 = 5, r = -6, n = 12$

The given number is which number in the given sequence?

12. 20971520, $a_n = 5(4)^{n-1}$

13. 11468.8, $a_n = 0.7(2)^{n-1}$