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Given a term in a geometric sequence and the common ratio find the term named in the problem.

1) $a_1 = 4$, r = 2Find a_{10}

Find the common ratio, the term named in the problem, and the explicit formula.

2) 3, 12, 48, 192, ... Find a_{10}

Evaluate each infinite geometric series described.

3) $2 + \frac{2}{3} + \frac{2}{9} + \frac{2}{27}$...

Evaluate each geometric series described.

4) $a_1 = -2, r = 3, n = 8$ 5) $a_1 = -3, a_n = -234375, r = 5$

Evaluate each infinite geometric series described.

6) $\sum_{m=1}^{\infty} -3 \cdot \left(\frac{1}{2}\right)^{m-1}$

Given the explicit formula for a geometric sequence find the common ratio and the term named in the problem.

7) $a_n = -4^{n-1}$ Find a_0 Given two terms in a geometric sequence find the common ratio and the term named in the problem.

8) $a_3 = 12$ and $a_6 = 96$ Find a_{10}

Evaluate each geometric series described.

9)
$$\sum_{m=1}^{8} 2 \cdot 5^{m-1}$$

Given the first term and the common ratio of a geometric sequence find the term named in the problem.

10) $a_1 = 3, r = -3$ Find a_{11}

Evaluate each geometric series described.

11) -1 + 4 - 16 + 64..., n = 912) 4 - 20 + 100 - 500..., n = 6

Given the recursive formula for a geometric sequence find the common ratio and the term named in the problem.

13) $a_n = a_{n-1} \cdot -5$ $a_1 = 1$ Find a_9

Evaluate each geometric series described.

14)
$$a_1 = 2, a_8 = 256, r = 2$$