Worksheet 8.6: Geometric Sequences

Find the common ratio of each sequence.

Find the next three terms of each sequence.

Determine whether each sequence is arithmetic or geometric.

$$8.12, 8, 4, 0, \dots$$

Find the first, fourth, and eighth terms of each sequence.

9.
$$A(n) = -5 \cdot 3^{n-1}$$

10.
$$A(n) = 5 \cdot (-3)^{n-1}$$

Write a rule and find the	givon torm in oach	goomotric coguenc	a described below
Wille a rule and initiatine	given term m caen	geometric sequenc	c acscribed below.

- 11. What is the tenth term when the first term is -6 and the common ratio is 2?
- 12. What is the seventh term when the first term is 1 and the common ratio is -4?

Find the next three terms of each sequence. Then write a rule for each sequence.

13. 216, 72, 24, 8, . . .

14. 0.1, 0.9, 8.1, 72.9, . . .