

LESSON
11-1

Practice A

Geometric Sequences

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

1. 1, 4, 16, 64, ...

common ratio: _____

2. 10, 100, 1000, 10,000, ...

common ratio: _____

3. 128, 64, 32, 16, ...

common ratio: _____

4. 4, -20, 100, -500, ...

common ratio: _____

5. The first term of a geometric sequence is 2 and the common ratio is 4. Find the 6th term.
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- _____

6. The first term of a geometric sequence is -3 and the common ratio is 2. Find the 8th term.
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- _____

7. The first term of a geometric sequence is 7 and the common ratio is -2. Find the 9th term.
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- _____

8. What is the 5th term of the geometric sequence 9, 27, 81, 243, ...?

common ratio (r): _____

first term (a_1): _____

5th term: _____

9. What is the 13th term of the geometric sequence -2, 4, -8, 16, ...?

common ratio (r): _____

first term (a_1): _____

13th term: _____

10. Martin got a job at a starting pay of \$8.00 per hour. His boss told him that if he works hard he can get a raise each year. The table shows Martin's wage for the first few years. Find Martin's hourly wage after 6 years. Round to the nearest cent.

common ratio (r): _____

first term (a_1): _____

6th term: _____

Year	Hourly Wage (\$)
1	\$8.00
2	\$9.60
3	\$11.52