Lesson 7.6 Practice: Geometric Sequences

School Launch · Algebra I · Unit 7: Exponents and Exponential Functions · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Find the 5th term of the geometric sequence $3, 9, 27, 81, \ldots$ EASY

2. Find the 5th term of the geometric sequence $6, 12, 24, 48, \ldots$ EASY

3. Find the 5th term of the geometric sequence $1, 2, 4, 8, \ldots$ EASY

4. Find the 7th term of the geometric sequence $96, 48, 24, 12, \ldots$ MEDIUM

5. Find the 8th term of the geometric sequence $-1, -3, -9, -27, \ldots$ MEDIUM

6. Find the 6th term of the geometric sequence $2, -4, 8, -16, \ldots$ MEDIUM

7. Find the 6th term of the geometric sequence $-3, -9, -27, -81, \ldots$ MEDIUM

8. Find the 10th term of the geometric sequence $6, 18, 54, 162, \ldots$ HARD

9. Find the 8th term of the geometric sequence $-4, -12, -36, -108, \ldots$ HARD

10. Find the 9th term of the geometric sequence $5, 15, 45, 135, \ldots$ HARD