

4.2 Part 2 (Geometric Sequences)

Name _____ Period _____

Determine the common ratio for each geometric sequence.

1) 5, 10, 20, 40, ...

2) 45, 15, 5, $\frac{5}{3}$, ...

3) 0.2, -1, 5, -25, ...

4) 64, -32, 16, -8, ...

Determine the common ratio and the next 3 terms for each geometric sequence.

5) 3, 9, 27, 81, _____, _____, _____, ...

6) 5, -10, 20, -40, _____, _____, _____, ...

7) 156.25, 31.25, 6.25, 1.25, _____, _____, _____, ...

8) 0.1, 0.4, 1.6, 6.4, _____, _____, _____, ...

Determine whether each given sequence is arithmetic, geometric, or neither. For arithmetic or geometric sequences, determine the next 3 terms.

9) 4, 8, 12, 16, ...

10) 1.1, 1.12, 1.123, 1.1234, ...

11) 5, -20, 80, -320, ...

12) 2, 4, 7, 11, ...