

Name: _____ Due Date: _____ Period: _____

12.3 Recursive: Arithmetic or Geometric

For each sequence determine:

- What is the common difference or common ratio?
- Arithmetic or Geometric?
- Write the Recursive Formula for each.
- What are the next 3 terms of the sequence?

1) $-4, -2, 0, 2, 4, 6, 8, 10 \dots$

- _____
- _____
- _____
- _____, _____, _____

2) $100, 95, 90, 85, 80 \dots$

- _____
- _____
- _____
- _____, _____, _____

3) $12,000, 6,000, 3,000, 1,500 \dots$

- _____
- _____
- _____
- _____, _____, _____

4) $1, 3, 9, 27, 81 \dots$

- _____
- _____
- _____
- _____, _____, _____

5) $-0.24, -0.16, -0.08, 0, 0.08 \dots$

- _____
- _____
- _____
- _____, _____, _____

6) $-1, -2, -4, -8, -16 \dots$

- _____
- _____
- _____
- _____, _____, _____

Now it's your turn to try! Then we will use your sequences to practice as a class.

The Sequence	Common Difference or Common Ratio	Arithmetic or Geometric?	Next Three Numbers in the Sequences	Write the Recursive Formula
<i>Make your own sequence here!</i>				