11.3 Recursive: Arithmetic or Geometric

For each sequence determine:

   a) What is the common difference or common ratio?
   b) Arithmetic or Geometric?
   c) Write the Recursive Formula for each.
   d) What are the next 3 terms of the sequence?

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

   a. _____

   b. _____

   c. _____

   d. _____,_____,_____

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

   a. _____

   b. _____

   c. _____

   d. _____,_____,_____

3) $12{,}000, \ 6{,}000, \ 3{,}000, \ 1{,}500 \ldots$

   a. _____

   b. _____

   c. _____

   d. _____,_____,_____

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

   a. _____

   b. _____

   c. _____

   d. _____,_____,_____

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

   a. _____

   b. _____

   c. _____

   d. _____,_____,_____

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

   a. _____

   b. _____

   c. _____

   d. _____,_____,_____

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
Make your own sequence here!				