Math 1 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2-2 Review** Date\_\_\_\_\_\_\_\_\_

*Learning goals:*

* *I can convert a sequence into a recursive or explicit formula.*
* *I can use a formula to find missing terms in a sequence.*
* *I can determine the common difference/ratio from a sequence.*
* *I can compare properties of two functions and/or sequences when represented in different ways (algebraically, graphically, numerically in tables, or by verbal descriptions).*

Find the next four terms of each arithmetic sequence.

1. 26, 20, 14, ...
2. 2.5, 6.8, 11.1, …

Find the first three terms of each sequence.

1. 
2. 

Find the first three terms of each arithmetic sequence described and write both the explicit and recursive formulas.

1. 
2. 
3. 

Find the desired term of each arithmetic sequence.

1. 
2. 
3. 

Complete each statement.

1. 462 is the \_\_\_\_\_\_ term of -2, 6, 14, …
2. 67 is the \_\_\_\_\_\_\_ term of 

Find the missing values in each arithmetic sequence.

1. 5, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, -3
2. -7, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 1

15. Mrs. Surdy and her family drove to Florida for a vacation over the summer. She determined that their Aroc for the trip was 61.2 mph. She decides to write a sequence showing how many miles they should have driven on average after each hour.

1. What would  represent in this situation?
2. After how many hours would they have traveled 1346.4 miles?
3. List the total amount of miles driven after each of the first four miles.

\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_

1. Write an explicit formula that models the miles driven by Mrs. Surdy’s family.
2. Write a recursive formula that models the miles driven by Mrs. Surdy’s family.
3. Which formula would be best to use to answer the following question: How many total miles has Mrs. Surdy’s family driven after 19 hours? Solve it.
4. How long has Mrs. Surdy’s family been driving if they have traveled 367.2 miles?