

Lesson 2.1 ~ Recursive Routines

Name _____ Period _____ Date _____

Find the missing values in each sequence. Identify the start value and the operation that must be performed to arrive at the next term.

1. 14, 17, 20, _____, 26, _____, _____ Start Value: _____

Operation: _____

2. 31, 25, _____, 13, 7, _____, -5, _____ Start Value: _____

Operation: _____

3. 7, 12, 17, _____, 27, _____, _____ Start Value: _____

Operation: _____

4. 2, _____, 16, _____, 30, 37, _____, _____ Start Value: _____

Operation: _____

5. -5, -9, _____, _____, _____, -25, _____ Start Value: _____

Operation: _____

6. 0, _____, 44, 66, _____, _____, 132 Start Value: _____

Operation: _____

For each sequence below, describe the recursive routine and give the next three terms in the sequence.

7. 3, 10, 17, 24, ...

Start Value: _____

Operation: _____

Next Three Terms: _____

8. 2.9, 2.2, 1.5, 0.8, ...

Start Value: _____

Operation: _____

Next Three Terms: _____

9. -13, -1, 11, 23, ...

Start Value: _____

Operation: _____

Next Three Terms: _____

10. 1, -3, -7, -11, ...

Start Value: _____

Operation: _____

Next Three Terms: _____

11. 60, 52, 44, 36, ...

Start Value: _____

Operation: _____

Next Three Terms: _____

12. $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, ...

Start Value: _____

Operation: _____

Next Three Terms: _____