

Name _____

Date _____

Explicit Expressions and Recursive Processes - Independent Practice Worksheet

Complete all the problems.

1. Write a recursive formula for the following sequences.

2, 5, 26, 677...

2. Given the recursive formula, write the explicit formula for the sequence.

$$t_1 = 0, \quad t_n = t_{n-1} - 2$$

3. Write an explicit formula for the following sequences.

20, 24, 28, 32, 36.....

4. Write an explicit formula for the following sequences.

3, 7, 11, 15, 19.....

5. Given the explicit formula, write the recursive formula for the sequence.

$$t_n = 2n - 1$$

6. Given the recursive formula, write the explicit formula for the sequence.

$$t_1 = 0$$

$$t_n = t_{n-1} - 5$$

7. Write a recursive formula for the following sequences.

2, 4, 6, 8, 10, ...

8. Given the explicit formula, write the recursive formula for the sequence.

$$t_n = 5n - 1$$

9. Write an explicit formula for the following sequences.

0, -3, -6, -9.....

10. Given the recursive formula, write the explicit formula for the sequence.

$$t_1 = 0$$

$$t_n = t_{n-1} - 6$$

