**M3 ARITHMETIC SEQUENCES HW** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Write the Recursive and Explicit formula for the following sequences:*

1. 2.

3. 4.

5. Find the next 5 terms if 6. In an arithmetic sequence, the first term is and the

Common difference is . What is the 8th term?

7. Find of the sequence 8. The 12th term of an arithmetic sequence is 30 and the

Common difference is 3. Find the first term.

9. Find the number of terms in the sequence: 10. Which term is 153 if the sequence begins

11. In an arithmetic sequence, 12. In an arithmetic sequence,

Find Find .

13. Find the common difference if the first term 14. The 3rd term of an arithmetic sequence is 2 and the 18th

Of an arithmetic sequence is 2 and the 11th term is 9.5. term is 47. Find the common difference.