Name_____

Worksheet 34 - Lesson 86

Date_____ Period_____

Determine if the sequence is arithmetic. If it is, find the common difference and the three terms in the sequence after the last one given.

1) $-13,\ -43,\ -73,\ -103,\ ...$

2) $0,\ 7,\ 14,\ 21,\ ...$

3) $-\dfrac{1}{2},\ -1,\ -\dfrac{3}{2},\ -2,\ ...$

4) $-2,\ 0,\ 3,\ 7,\ ...$

Determine if the sequence is arithmetic. If it is, find the common difference, the 52nd term, and the explicit formula.

5) $16,\ 6,\ -4,\ -14,\ ...$

6) $-17,\ -9,\ -1,\ 7,\ ...$

7) $\dfrac{1}{3}, \dfrac{8}{5}, \dfrac{27}{7}, \dfrac{64}{9}, \ldots$

8) $5, \dfrac{9}{2}, 4, \dfrac{7}{2}, \ldots$

9) $-6.7, -6, -5.3, -4.6, \ldots$

10) $10, -190, -390, -590, \ldots$

Find the missing term or terms in each arithmetic sequence.

11) ..., -16, ___, 4, ...

12) ..., -7, ___, ___, -25, ...