Foundations of Math and Pre-Calculus 10   Name:_____

Arithmetic Sequences

Block:_____ Mark Out of 24_____

State if each sequence is arithmetic.

1) $20,\ 10,\ 0,\ -10,\ ...$

2) $3,\ 5.8,\ 8.6,\ 11.4,\ ...$

Find the common difference.

3) $-12,\ -112,\ -212,\ -312,\ ...$

Find the three terms in the sequence after the last one given.

4) $-17,\ -12,\ -7,\ -2,\ ...$

Given the explicit formula for an arithmetic sequence find the first five terms.

5) $a_n = -19 + 10n$

Given the recursive formula for an arithmetic sequence find the first five terms.

6) $a_n = a_{n-1} - 20$
   $a_1 = 14$

Given the explicit formula for an arithmetic sequence find the term named in the problem.

7) $a_n = 17 - 5n$
   Find a_{40}

Given the recursive formula for an arithmetic sequence find the explicit formula.

8) $a_n = a_{n-1} + 3$
   $a_1 = -32$

Given two terms in an arithmetic sequence find the explicit formula.

9) $a_{19} = 580$ and $a_{37} = 1120$

Given two terms in an arithmetic sequence find the term named in the problem.

10) $a_{14} = 353$ and $a_{33} = 923$
    Find a_{40}

Given two terms in an arithmetic sequence find the explicit formula.

11) $a_{20} = 187$ and $a_{37} = 340$

Given a term in an arithmetic sequence and the common difference find the explicit formula.

12) $a_{25} = 471, \ d = 20$