Algebra 2 Name_____

Sequence 2 WS

State if each sequence is arithmetic.

1) −19, −11, −3, 5, ...

2) −11, 189, 389, 589, ...

3) −11, −211, −411, −611, ...

4) 25, 55, 85, 115, ...

5) −19, −25, −31, −37, ...

6) 25, 17, 9, 1, ...

Find the common difference and the three terms in the sequence after the last one given.

7) 37, 7, −23, −53, ...

8) −25, −30, −35, −40, ...

9) 25, 15, 5, −5, ...

10) 0, −8, −16, −24, ...

11) −20, −120, −220, −320, ...

12) 12, 10, 8, 6, ...

Find the common difference and the explicit formula.

13) 32, 25, 18, 11, ...

14) 20, 220, 420, 620, ...

15) −17, 3, 23, 43, ...

16) 7, 12, 17, 22, ...

17) −37, 63, 163, 263, ...

18) −12, −16, −20, −24, ...

Find the term named in the problem and the explicit formula.

19) 40, 45, 50, 55, ...
Find a_{33}

20) −5, −205, −405, −605, ...
Find a_{34}

21) 15, 13, 11, 9, ...
Find a_{32}

22) 27, 33, 39, 45, ...
Find a_{33}

23) −29, −37, −45, −53, ...
Find a_{33}

24) −10, −1, 8, 17, ...
Find a_{32}