

## Arithmetic Sequences

Date \_\_\_\_\_ Period \_\_\_\_\_

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

1)  $-19, -13, -7, -1, \dots$

2)  $-22, 178, 378, 578, \dots$

3)  $-28, 2, 32, 62, \dots$

4)  $-16, -22, -28, -34, \dots$

5)  $5, 8, 11, 14, \dots$

6)  $-1, -2, -6, -24, \dots$

7)  $-36, -32, -28, -24, \dots$

8)  $-18, -15, -12, -9, \dots$

9)  $24, -76, -176, -276, \dots$

10)  $-17, -19, -21, -23, \dots$

11) 19, -181, -381, -581, ...

12) 12, 2, -8, -18, ...

13) 25, -5, -35, -65, ...

14) 1, 3, 7, 15, ...

15) 2, -8, -18, -28, ...

16) -27, -227, -427, -627, ...

17) -30, -40, -50, -60, ...

18) 31, 21, 11, 1, ...

19) 27, -73, -173, -273, ...

20) -32, -132, -232, -332, ...