## Unit 5 Day 10 Warm Up

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

Evaluate the related series of each sequence.

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Common Difference: 
$$d = -6$$
  
 $a_{52} = -326$ 

Explicit: 
$$a_n = -14 - 6n$$

Common Difference: d = -200 $a_{52} = -10213$ 

Explicit: 
$$a_{n} = 187 - 200n$$

Common Difference: 
$$d = 10$$
  
 $a_{52} = 517$   
Explicit:  $a_n = -3 + 10n$ 

4) 99, 991, 9911, 99111, ...

Not arithmetic

Common Difference: 
$$d = -4$$
  
 $a_{52} = -220$   
Explicit:  $a_n = -12 - 4n$ 

6) 
$$-1$$
,  $-2$ ,  $-6$ ,  $-24$ , ...

Not arithmetic

Evaluate the related series of each sequence.