

I. Complete the chart below. Must show work for credit!

Given Sequence	Determine If Arithmetic	Common Difference d	Next Three Terms
1.) 7 , 11 , 15 , 19 , ...			
2.) 3 , 6 , 9 , 13 , ...			
3.) 31 , 23 , 15 , 7 , ...			
4.) 4.1 , 1.7 , - 0.7 , ...			

II. Find the indicated term of each arithmetic sequence. Must show work for credit!

5.) $a_1 = 2$ and $d = 6$; find the 12 th term	6.) $a_1 = -10$ and $d = 2$; find the 28 th term	7.) Find a_{65} for sequence 12 , 5 , - 2 , ...	8.) Find a_{23} for sequence 4 , 16 , 28 , ...
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III. Considering all given sequences are arithmetic – Find what is asked. SHOW WORK!!!

9.) If the forty-sixth term is 203 and the common difference is 4, then what is the first term?	10.) If first term is 36 and the 52 nd term is 597 in a sequence, then what is the common difference?	11.) Which term of the sequence - 15 , - 3 , 9 , ... is 417?
12.) If 18 th term of the sequence is - 105 and $d = -7$, then what is the sixth term?	13.) The 23 rd term of a sequence is 103 and the 36 th term is 155. What is the first term of the sequence?	14.) What is the n th term formula for sequence of 4 , 12 , 20 , 28 , ...?
15.) What are the three arithmetic means between 6 and 38?	16.) Is - 50 a part of the following sequence: 17 , 14 , 11 , ... ? Explain your answer.	17.) If $a_1 = 5$ and $a_{31} = 185$, then what is the eleventh term of the sequence?
18.) The 42 nd term is - 190 and the 34 th term is - 150. What is the 26 th term of the sequence?	19.) What are the two arithmetic means between 16 and - 2?	20.) The sixteenth term is 117 and the seventeenth term is 124. What is the 21 st term of the sequence?