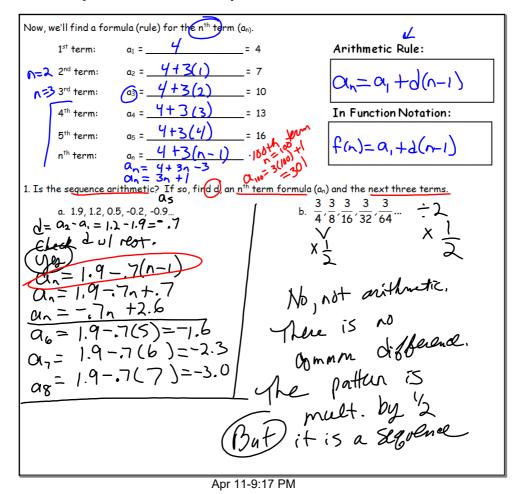
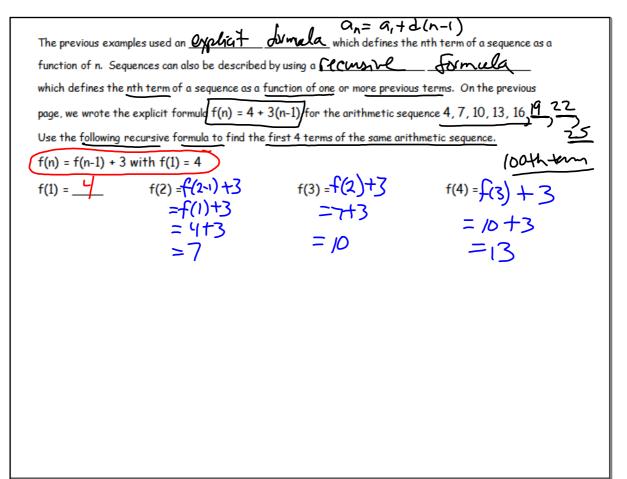
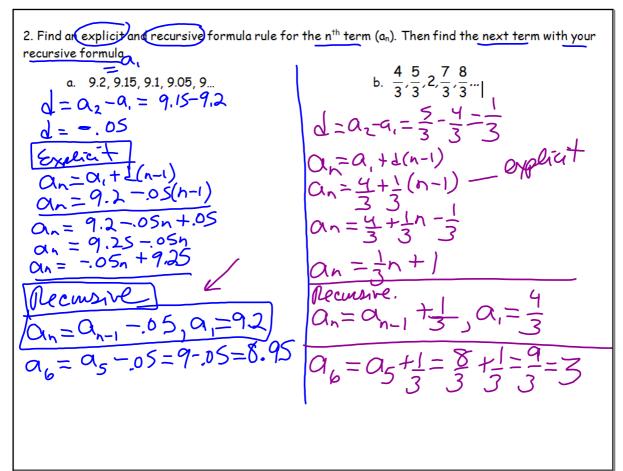


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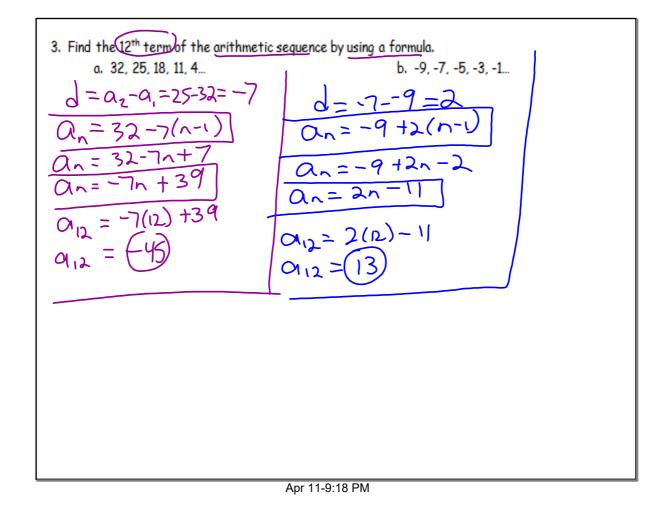
Introduction to Sequences & Arithmetic Sequences Day							Day 1
A <u>Sequence</u> is an ordered set of numbers or other items. Each number in the							
sequence is called a term. For example, in the sequence 4, 7, 10, 13, 16,, the second term							
is 7. A sequence can be <u>infinite</u> (without end) or <u>finite</u> (limited							
number of terms). Each term in the sequence can be paired with a position number, and these pairings							
establish a <u>function</u> whose domain is the <u>set of position numbers</u> and whose range is the set of							
terms, as shown below. The position numbers are consecutive integers that typically start at either							
<u>O</u> or <u></u>	Position number	n	1	2	3	4	5
	Term of sequence	f(n)	4	7	10	13	16
For this sequence, we write $f(4) = 13$ which can be interpreted as "the fourth term of the sequence is 13." 4, 7, 10, 13, 16 Can you find a pattern?							
In this sequence, each term is 3 MIC than the previous term. This is an Arithmetic Sequence because successive terms							
differ by the same number, called the common difference (d and $d \neq 0$).							
3 is called the Common							
3 is called the <u>Common</u> <u>Cafference</u> (d) 4 is called the <u>fi/5t</u> <u>term</u> (a ₁) 7 is called the <u>Second</u> <u>term</u> (a ₂)							
16 is called the fifth term (a ₅)							
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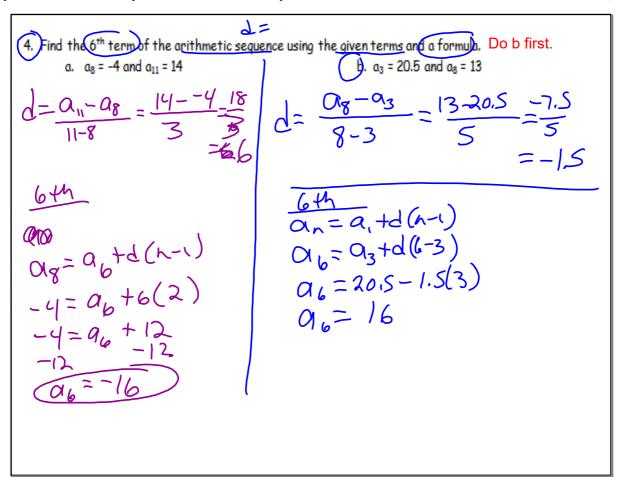






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