Thursday, November 12th

Finding the rule of a sequence:

A sequence often presents a pattern.We can determine all the terms of this sequence by using a rule.The rule calculates a term *t* on its rank *r*.

Rank	1	2	3	4	5	...	*r*
Term	5	7	9	11	13	...	*t*

Therefore, the term of rank 5 = 2 x 5 + 3 = 13

Practice:

1. For each of the following rules, give the first 5 terms of the sequence.
   a. t=7r _____
   b. t= 4r - 1 _____
   c. t= r^3 _____
   d. t= 2(r +1) _____

2. Determine the rule for the following sequence:
   a. _____

r	*t*
1	5
2	10
3	15
4	20
...	...

b. _____

r	*t*
1	1
2	4
3	9
4	16
...	...

3. For each of the following, determine **1.** the rule of the sequence, **2.** the term of rank 12, and **3.** the rank of term 100.

a. The sequence of a non-zero natural number.

1. _____ 2. _____ 3._____

b. The sequence of non-zero multiples of 3

1._____ 2._____ 3._____

Homework:
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