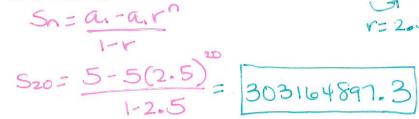
Spiral Review #9.1

1. Determine the sum of the first twenty terms of the sequence whose first three terms are 5, 12.5, 31.25, ...

Geometric Series



n=20

What is the explicit formula for the *n*th term of the sequence $63, 21, 7, \dots$?

 $a_n = a_1 r^{n-1}$ $a_n = (3(\frac{1}{3})^{n-1})$

- r= 3 Geometric
- 3. Find the first five terms of the recursive sequence defined below.

$$a_1 = -4$$
$$a_n = a_{n-1} - n$$

$$a_1 = -4$$
 $a_2 = -4 - 2 = -6$
 $a_3 = -6 - 3 = -9$
 $a_4 = -9 - 4 = -13$
 $a_5 = -13 - 5 = -18$

4. On the first day it posted online, a music video got 1760 views. The number of views that the video got each day increased by 30% per day. How many TOTAL views did the video get over the course of the first 6 days to the nearest whole number? Geometric Scries

a. = 1760

$$S_{1} = 1.3$$

$$S_{2} = a_{1} - a_{1} r$$

$$S_{3} = a_{1} - a_{1} r$$

$$S_{4} = 1760 - 1760(1.3)$$

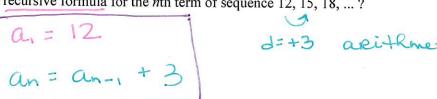
$$S_{5} = 1760 - 1760(1.3)$$

$$S_{6} = 1760 - 1760(1.3)$$

$$S_{7} = 22450.6$$

$$S_{8} = 1760 - 1760(1.3)$$

$$S_{8} $$S_{8} =$$



Recursive MUST have a, AND an