Post Formative Review

Name: _____ 10__

nth term of an arithmetic sequence:

$$u_n = u_1 + (n-1)d$$

nth term of a geometric sequence:

$$u_n = u_1 \bullet r^{n-1}$$

From the Assessment

- 1. Given the sequence: $u_n = 7 3n^2$ for $n \ge 1$
 - a. Write the first three terms.

b. Find the term that has the value -761.

Try One

- 1. Given the sequence: $u_n = 3 4n^2$ for $n \ge 1$
- a. Find the first three terms.
- h. Find the 12th term in the sequence

2. Given the recursive rule for a sequence:

$$u_{n+1} = 2(u_n - 4)$$
 for $n \ge 1$ and $u_1 = 17$

Write the first four terms of this sequence.

For the sequence: $u_{n+1} = 3(u_n - 2)$ for $n \ge 1$ If $u_1 = 13$, then list the first three terms.

From the Assessment

- 3. Consider the given sequence: -18, -14, -10, -6, ...
- a. Use the "linear" approach to create the explicit rule.
- b. Use the "arithmetic" approach to create a general rule. Simplify this rule to show that it is the same as in part a.

Try One

Given the sequence: 23, 12, 1, -10, ...

- a. Use the "linear" approach to create the explicit rule.
- Use the "arithmetic" approach to create a general rule.
 Simplify this rule to show that it is the same as in part a

4. Given the geometric sequence: -2, -5, -12.5, ...

a. Create an explicit rule for the sequence.

Short the governottic sequence: -3, 3.6, -4.32, ...

 Create an explicit mule fee the sequence.

b. Use the rule to find

c. Find the torm that has the salue -115.013799773

b. Use the rule to find \boldsymbol{u}_{6}

c. Find the term that has the value -3051.7578125

From the Assessment

- 5. Create a rule for each quadratic sequence:
- a) 5, 5, 7, 11, ...

b) -12, -19, -32, -51, ...

6. Find the explicit rule for an arithmetic sequence whose 3rd term is -1 and whose 7th term is -21.

Try One

Executive is made: floor execute quantification energoisement act, 45, 31, 41, 31

No. - 10. 10. 10-10. 10 Th.

From the Assessment

7. Find the explicit rule for a geometric sequence whose 4^{th} term is -192 and whose 7^{th} term is - 12288 .

- 8. The first three terms of an arithmetic sequence are: 4k-2, 3k+4 and 6k
 - a. Find the value of k.

b. Find the value of u_{15}

Try One

Find the explicit rule for a governettic sequence whose 3° term is 247 and whose 6° term is 1664.2

This first three terms of an addisonalis sequence are