

## How to Do Page 49 Example 1a) Using TI-Nspire™ With Touchpad

Use TI-Nspire™ with Touchpad to calculate the sum of the first ten terms of the geometric sequence  $t_n = 4(3)^{n-1}$ .

1. Press the home key and open A: Calculate.
2. Generate a sequence.
  - Press **menu**.
  - Select 6: Statistics and then 4: List Operations. Then, select 5: Sequence.
  - You are now ready to enter information about the sequence using the following syntax: seq(expression, variable, starting value of variable, ending value of variable, increment of variable) Note:  $x$  is usually chosen for the variable.
  - To generate the first 10 terms press: 4 **x** 3 **^** X **-** 1 and then right arrow on NavPad **,** X **,** 1 **,** 10 **,** 1 **enter**. See Figure 1.

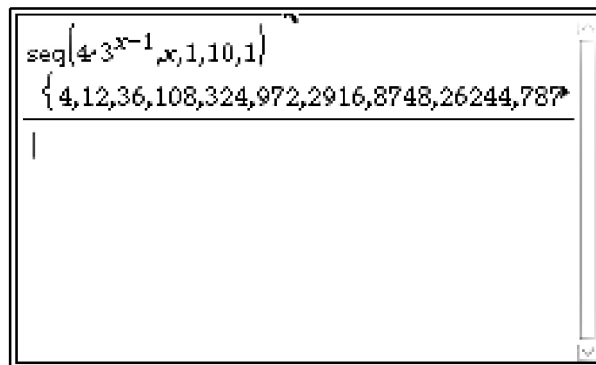


Figure 1

3. Calculate the sum of the sequence.
  - Press **menu**.
  - Select 6: Statistics, and then select 3: List Math.
  - Select 5: Sum of Elements. See Figure 2.

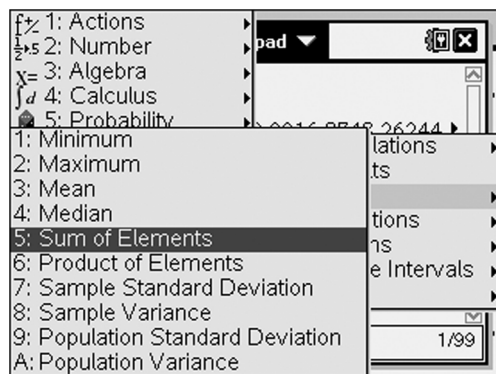


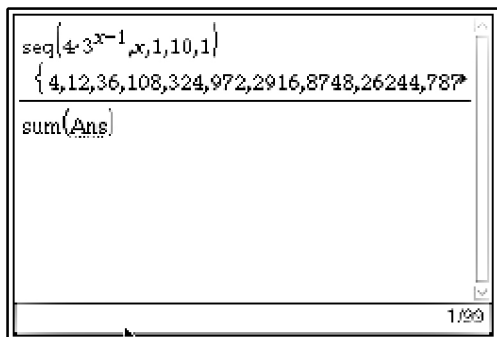
Figure 2



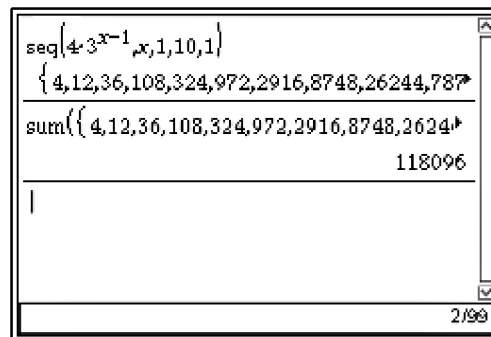
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**TM 1-5**  
(continued)

- To sum the sequence stored in ANS as shown in Figure 3 below, press    .  
You will see Figure 4.

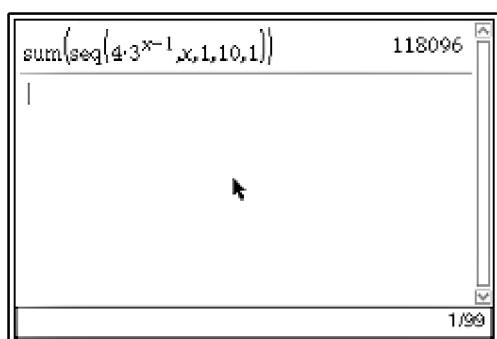


**Figure 3**



**Figure 4**

Note: If you wish to do the SUM and SEQ all at once, start with the SUM function first. See Figure 5.



**Figure 5**

