

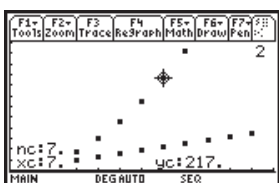
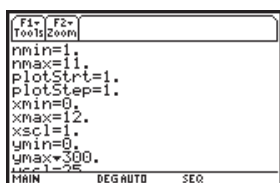
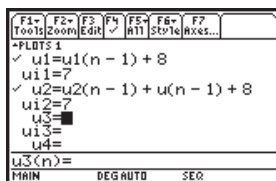
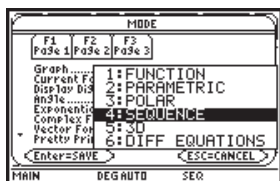
CHAPTER 11 Calculator Notes for the TI-89, TI-92 Plus, and Voyage 200

Note 11A • Partial Sums of Series

Follow these steps to find partial sums of any recursively defined sequence:

- Press **MODE** and set Graph to SEQUENCE.
- From the Y= Editor screen, press **2nd** [F7] and set Axes to TIME. (On a TI-92 Plus or a Voyage 200, press **F7**.)
- On the Y= Editor screen, enter
 - $u1$ = recursive rule for the sequence.
 - $u11$ = the starting value of the sequence.
 - $u2$ = the sum of $u_2(n - 1)$ and the recursive rule for $u_1(n)$. Sequence u_2 is the sequence of partial sums of the terms of sequence u_1 .
 - $u12$ = the same starting value as $u11$.
- On the Window Editor screen, enter
 - $nmin = 1$.
 - $nmax$ = the greatest n -value you want to find.
- Set the rest of the Window Editor screen or the Table Set screen in order to view the terms of sequence u_1 and the partial sums, sequence u_2 .

See Notes 1D and 1E for more help entering or graphing recursive sequences.



n	u1	u2
3.	23.	45.
4.	31.	76.
5.	39.	115.
6.	47.	162.
7.	55.	217.

The bottom status bar shows MAIN, DEGRAUTO, and SEQ.

[0, 12, 1, 0, 300, 25]