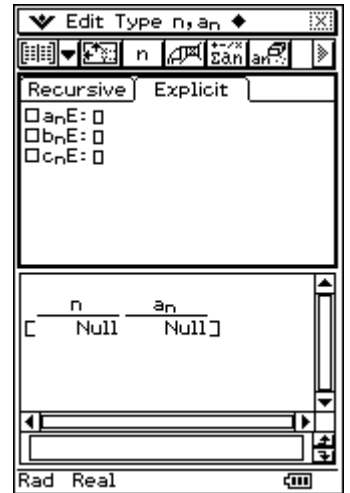


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<b>801</b>	<b>Sequence - Explicitly Defined</b>	Author	Charlie Watson
		Date	8 March 2011
		CPM OS	<b>03.05.0000</b>

Open the Sequence application.

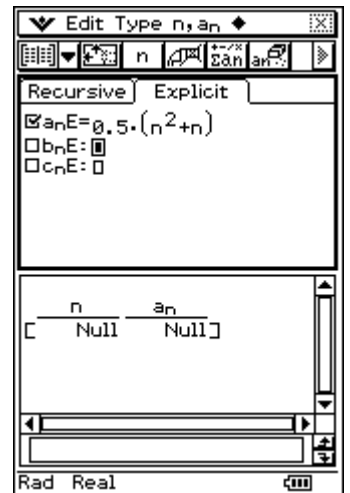
Tap **Edit, Clear All, OK**.


Tap on the **Explicit** tab.



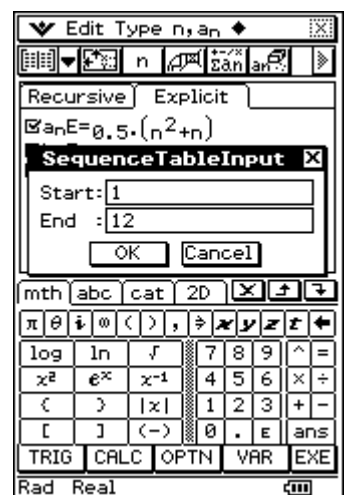
Example: Find and graph the first twelve terms of the sequence given by  $T_n = 0.5(n^2 + n)$ , the sequence of triangle numbers.

Enter the explicit formula in the first row and tap **EXE**.



Tap .

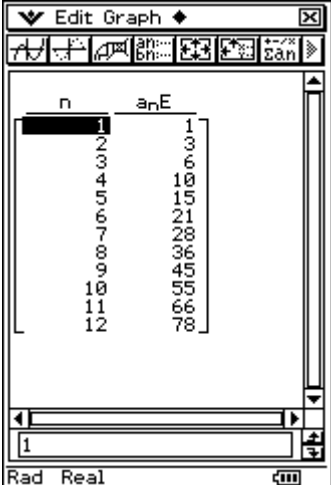
Use Start and End to set the first term as **1** and last term as **12** and then tap **OK**.




Tap .

Tap **Resize**.

*The first twelve terms are displayed.*

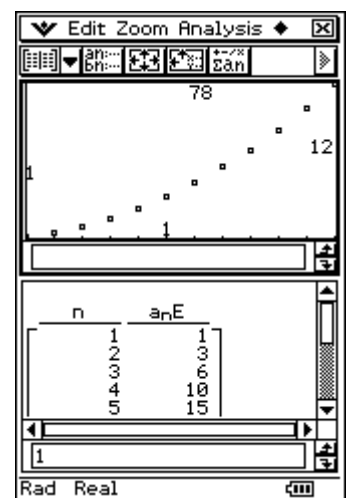



n	$a_nE$
1	1
2	3
3	6
4	10
5	15
6	21
7	28
8	36
9	45
10	55
11	66
12	78

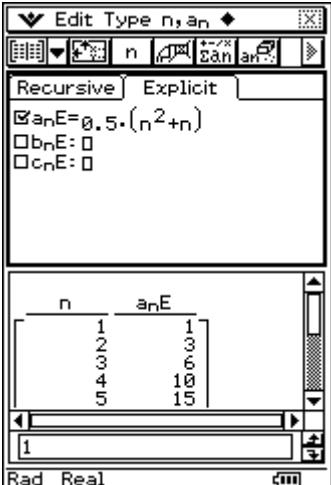
Tap .

Tap **Zoom, Auto**.

*The twelve terms are plotted and scaled to fit the window.*



Tap  to close the graph window.



Recursive Explicit

$a_nE = 0.5 \cdot (n^2 + n)$

$b_nE = 0$

$c_nE = 0$

n	$a_nE$
1	1
2	3
3	6
4	10
5	15