

Classpad Help Series sponsored by Casio Education Australia		www.casioed.net.au	
041	Sequence: What's my rule?	Author	Charlie Watson
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		CPM OS	03.03.3000

A. Find an expression for the  $n$ th term of the following sequence.

3, 7, 11, 15, ...

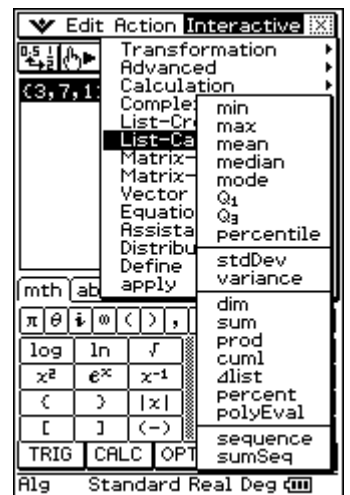
Tap **Keyboard** and use the curly braces { and } from the math tab to enter the sequence as

{3,7,11,15}.

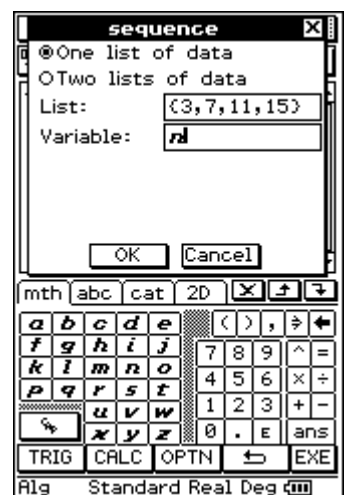
Drag across the list to select.



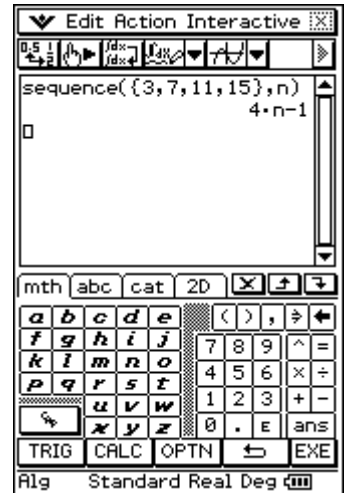
Tap **Interactive**, tap **List-Calculation**, tap **sequence**.



Tap into the variable box and select  $x$ , tap on **VAR**, tap on  $n$ .



Tap **OK** and the rule for this sequence is displayed.



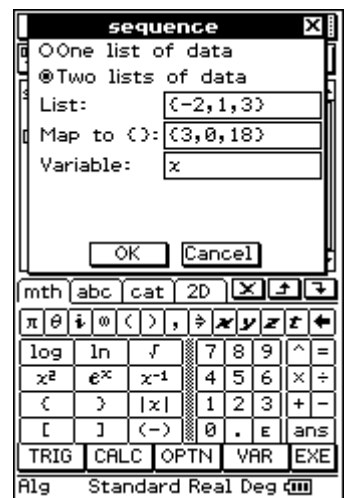
B. Find the equation for the parabola that passes through the points  $(-2, 3)$ ,  $(1, 0)$  and  $(3, 18)$ .

Tap **Interactive**, tap **List-Calculation**, tap **sequence**.

Tap the radio button next to **Two lists of data**.

In the top box enter the  $x$ -coordinates as a list surrounded by curly braces.

Repeat for the  $y$ -coordinates in the Map to { } box.



Tap **OK**.

NB: The **sequence** command will find the lowest order *polynomial* to fit a sequence of points.

