## $\underline{\text { TI-83+ }}$

MODE: Put your calculator into sequence mode.

- To generate a list of terms in a sequence $\left\{a_{n}\right\}=\{f(n)\}$

Method 1: On the $\mathrm{Y}=$ menu: $\quad \mathrm{nMin}=1$

$$
u(n)=f(n)
$$

$\mathrm{u}(\mathrm{nMin})=$ value of term $a_{1}$
On the Tblset menu: TblStart $=1$
$\Delta \mathrm{Tbl}=1$
Auto
Auto
Go to TABLE to view the terms of the sequence
Method 2: On the home screen, type $\operatorname{seq}(\mathrm{f}(\mathrm{n}), \mathrm{n}, 1, \mathrm{k}, 1)$ (where k is the number of terms you want to see) then press <ENTER>
Note: seq can be found in LIST OPS or in catalog

- To graph the terms of a sequence

$$
\begin{array}{ll}
\text { On the } \mathrm{Y}=\text { menu } & \mathrm{nMin}=1 \\
& \mathrm{u}(\mathrm{n})=\mathrm{f}(\mathrm{n}) \\
& \mathrm{u}(\mathrm{nMin})=\text { value of term } a_{1}
\end{array}
$$

Set an appropriate window, have your calculator in dot mode; press GRAPH

## - To generate and graph a sequence of partial sums for the series $\sum_{n=1}^{\infty} a_{n}$

On the $\mathrm{Y}=$ menu, enter

$$
\begin{aligned}
& \mathrm{nMin}=1 \\
& \mathrm{u}(\mathrm{n})=\operatorname{sum}(\operatorname{seq}(\mathrm{f}(\mathrm{n}), \mathrm{n}, 1, \mathrm{n}, 1)) \\
& \mathrm{u}(\mathrm{nMin})=\text { value of term } a_{1}
\end{aligned}
$$

Note: sum can be found in LIST MATH or in catalog
On the Tblset menu:

$$
\begin{aligned}
& \text { TblStart }=1 \\
& \Delta \mathrm{Tbl}=1 \\
& \text { Auto } \\
& \text { Auto }
\end{aligned}
$$

Go to TABLE to view the terms of the sequence of partial sums; press GRAPH to see the sequence of partial sums graphed. You can also use the TRACE key to read out the values of the partial sums.

## TI-86

- To generate a list of terms in a sequence $\left\{a_{n}\right\}=\{f(n)\}$

On the home screen, enter $\operatorname{seq}(\mathrm{f}(\mathrm{n}), \mathrm{n}, 1, \mathrm{k}, 1)$ and press enter to generate the first k terms.
Note: seq can be found in MATH MISC

- To generate and graph a sequence of partial sums for the series $\sum_{n=1}^{\infty} a_{n}$

On the $\mathrm{Y}=\mathrm{menu}$, enter $\mathrm{y} 1=\operatorname{sum} \operatorname{seq}(\mathrm{f}(\mathrm{x}), 1, \mathrm{x}, 1)$ and press GRAPH.
If you set $\mathrm{X} \min =0$ and $\mathrm{Xmax}=126$ on the WINDOW menu, you can TRACE on the graph to read the values of the partial sums.

