E. Graphing Partial Sums

You can graph partial sums using the GRSEQ program in D. When you are prompted to enter the sequence, enter

\[ \text{sum seq}(A(i),i,1,N,1). \]

If the series converges and you want to draw the line \( y = \text{Sum} \), follow the instructions in the last paragraph of D.

Following is another program for graphing the sequence of partial sums of a series. This is a little faster than the program above and may be better for large values of \( N \). However, you will not be able to trace on the graph. Before running, set range variables as in D above.

You can modify the program to plot the line \( y = \text{sum} \) as above.

```
PROGRAM: GRPS
:FnOff
:Disp "ENTER A(N)"
:InpSt S
:St×Eq(S,AN)
:Disp "START N=?"
:Input A
:Round(xMax,0)-B
:0→S
:DispG
:For(N,A,B,1)
:S+AN→S
:PtOn(N,S)
:End
```