TI–85 and TI–86 PROGRAM: PARTIAL SUM OF P SERIES
(remember to press ENTER at end of each line)

KEY IN	DISPLAY	EXPLANATION
PRGM EDIT PSUM	Prgm: PSUM	Program named “PSUM”
Disp "ααVALUE OF P”	Disp “VALUE OF P”	The P in the p-series
Input αP	Input P	After ?, type in the desired P
Disp "ααINITIAL INDEX”	Disp “INITIAL INDEX”	
Input αM	Input M	After ?, type in the desired initial index M
Disp "ααLARGEST INDEX”	Disp “LARGEST INDEX”	
Input αJ	Input J	After ?, type in the desired final index J
ϕ STO S	ϕ → S	ϕ is stored in location S (S = partial sum of series)
M STO N	M → N	N will be variable index; its smallest value is M
For (αN,1,αJ,1)	For (N,1,J,1)	Start of loop, with N increasing by 1 until N = J
αS + 1/αN ^ αP STO αS	S + 1/N ^ P → S	The sum S is increased by $1 / N^P$ and renamed S
End	End	End of the loop
Disp “ααJ–N+1 PARTIAL SUM”	Disp “J–N+1 PARTIAL SUM	
Disp αS	Disp S	Displays the desired partial sum $\sum_{n=m}^{j} 1 / n^p$

To execute the program, key in PRGM, find the program, and follow the ?’s that appear.

EXPRESSIONS IN ITALICS ABOVE:

Disp can be found under I/O

Input can be found under I/O

For can be found under CTL

End can be found under CTL

“ can be founded under I/O MORE

ϕ represents zero (distinguished from the letter 0)

If you type α(–) then you get a "space" (between two words) — here (–) is the "negative" key