

TI-82, 83, 83+

SIMPSON'S RULE SUM PROGRAM

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Disp "ENTER YOUR FN"
Disp "IN Y 1"
Disp "WHAT IS N?"
Prompt N
Disp "LOWER LIMIT?"
Prompt A
Disp "UPPER LIMIT?"
Prompt B
(B-A)/N→D
0→S
For(I,1,N-1,2)
S+4*Y1(A+D*I)→S
End
For(I,2,N-2,2)
S+2*Y1(A+D*I)→S
End
S+Y1(A)+Y1(B)→S
D*S/3→S
Disp "SIMPSONS SUM IS"
Disp S
Stop
    
```

2nd A-LOCK locks you in alphabet mode (until you go to a new line).

"How many INTERVALS?"

PRGM **Right Arrow** to **I/O** to find **Disp** and **PROMPT**

STOP is "→"

PRGM go down the CTRL list to find

FOR, **END**, and **STOP**

To get **Y1**

VARS, right arrow to **Y-VARS**, choose **FUNCTION**, choose **Y1**

TRAPEZOID RULE PROGRAM

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Disp "ENTER YOUR FN"
Disp "IN Y 1"
Disp "N EQUALS WHAT?"
Prompt N
Disp "LOWER LIMIT?"
Prompt A
Disp "UPPER LIMIT?"
Prompt B
0→S
(B-A)/N→D
For(I,0,N)
S+Y1(A+I*D)→S
End
For(I,1,N-1)
S+Y1(A+I*D)→S
End
D*S/2→T
Disp T
Stop
    
```

INTERVALS?"

How many INTERVALS?"

← Disp "Trapezoid Sum is"