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Filename:EULER
"EULER'S METHOD SOLN OF DIFFEQ (NUMERICAL)"↵
"STORE  $d/dx(Y)=f_6(X,Y)$ FIRST"↵
"KNOWN POINT IS AT"↵
"(A,F(A))"↵
"A="?"→A↵
"F(A)="?"→F↵
"COMPUTE F(B) FOR B="?"→B↵
"CHOOSE"↵
"(1)STEP SIZE OR"↵
"(2)NUMBER OF STEPS"?"→C↵
If C=1↵
Then "STEP SIZE="?"→H↵
(B-A)÷H→N↵
Else "NUMBER OF STEPS="?"→N↵
(B-A)÷N→H↵
IfEnd↵
A→X↵
F→Y↵
For 1→I To N↵
Y+f6H→Y↵
X+H→X↵
Next↵
"F(B)~"↵
Y

```