

eu

```
Define LibPub eu()=  
Prgm  
Local y1,x0,y0,h,xn,r,r0,a,a1  
Local ii,jj,inc,col,row  
Request "derivative :",y1(x,y)  
Request "x0 = :",x0  
Request "y0 = :",y0  
Request " h = :",h  
Request "xn = ",xn  
x0→ii  
y0→jj  
r0:= $\begin{bmatrix} \text{"xn"} \\ \text{"yn"} \\ \text{"h \cdot y'(xn)"} \end{bmatrix}$   
r:=r0  
While ii≤xn  
inc:=h·y1(ii,jj)  
a:=[ii jj inc]  
jj:=jj+inc  
ii:=ii+h  
augment(r,a1)→r  
EndWhile  
col:=colDim(r)  
row:=rowDim(r)  
Disp r  
a1:=subMat(r,1,col,row,col)  
Disp (augment(r0,a1))▶Decimal  
EndPrgm
```