**Home Task**

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**Picard's Method Code.**

**Code:**

clc

syms x y

fg= @(x,y) x\*(y-1); %x\*(y-1) is equation of question

fex= @(x,y) exp((x.^2)/2)+1 %Exact Solution

fg=f;

a=0;b=0.2;

h=0.1;

N=(b-a)/h;

y0=2.0; %intial condition

f=y0+ subs(int(f,x,0),y,1);

for j= a:h:b

i=i+1;

fn= subs(fg,y,f);

end

for j=a:h:b

fn=subs(fg,y,f);

f=y0+int(fn,x);

end

for j=a:h:b

i=i+1;

zp(i+1)=zp(i)+subs(f,x,j);

zex(i+1)=zex(i)+subs(fex,x,j);

xx(i)=j;

end

**Result:**

Toolbox not installed, getting errors **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**