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Course:B.Sc(H)Physics

clc;

clear;

clf;

function ydox=f(x,y)

ydox=x\*y

endfunction

x=zeros(7,1)

y=zeros(7,1)

y(1)=5

x(1)=1

h=0.1

for(n=1:6)

x(n+1)=x(n)+h

y(n+1)=y(n)+h\*f(x(n),y(n))

c(n+1)=y(n+1)

y(n+1)=y(n)+(h/2)\*(f(x(n),y(n))+f(x(n+1),y(n+1)))

end

disp([x y c])

plot(x,y)



