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**SOURCE CODE:**

clc;

clear;

clf;

x10=0

x1=0:0.1:10

function **dy1**=e(**y1**, **x1**)

**dy1**(1)=**x1**(2)

**dy1**(2)=-**x1**(1)-2\***x1**(2)

endfunction

y1=ode([0;1],x10,x1,e)

subplot(221)

plot(x1,y1(1,:),'-',x1,y1(2,:),'\*')

**OUTPUT:**

**d^2y/dx^2 + 2\*dy/dt = -y**

