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**SOURCE CODE:**

clc

clear

clf

function **y1dox1**=f(**x1**, **y1**)

**y1dox1**=exp(-**x1**)

endfunction

y10=0;

x10=0;

x1=0:0.1:%pi;

y1 = ode(y10,x10,x1,f);

subplot(221)

plot(x1,y1)

function **y2dox2**=g(**x2**, **y2**)

**y2dox2**=(**x2**)^2-(exp(-**x2**)\***y2**)

endfunction

y20=0;

x20=0;

x2=0:0.1:%pi;

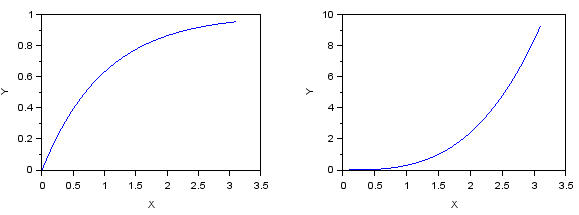
y2 = ode(y20,x20,x2,g);

subplot(222)

plot(x2,y2)

**OUTPUT:**

**dy/dx=exp(-x) dy/dx=(x)^2-(exp(-x)\*y)**

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