

	Ans = dsolve (eqn, cond)
x Command window	(sol(t)) = Ans(x)
clc	y sol(t) = Ans*y
clear	
syms t	Visualizing the solution
eqn = diff(n,t,2) - diff(n,t) - 12An	on graph separately
= (44 * Ce^5) + 12.5;	continue with
cond = n(0) == 9, diff(n,t,2) == 0.7	fplot(xsol)
y(t) = dsolve (eqn, cond)	fplot(y sol)
t = 0 : 0.1 : 1.5	grid on
EB00n = subs(y sol)	legend ('x sol', 'location', 'best')
fplot (EB00n)	legend (y sol, 'location', 'best')
grid grid on	Together
legend (EB00n, 'location', 'best')	fplot (x sol)
	hold on
B) Command window	fplot (y sol)
clc	grid on
clear	legend (x sol, y sol, 'location',
close	'best')
syms x(t) y(t)	
eqn1 = diff(y,t) - x^2 * e == exp(-t)	
eqn2 = diff(x,t) + y * exp(-t);	
eqn = [eqn1, eqn2]	
Cond = x(0) == 0, y(0) == 0;	

c) Command window

clc

clear

clear all

syms t s w a k a

$$z = k * \exp(-a * t) + \sin(s * w * t) * \cos(300 * t)$$

* F = laplace(z, t, s)

Simplify(F)

pretty(cons)

ii) Command window

clc

clear

close all

syms s

$$F = \pi * ((s^2) * 15 * \pi + s + 24 + \pi * 3)$$

* Laplace(F)

Simplify(cons)

pretty(cons)

