

Amrigo Akem 0

17/ENC-03 7 016

Civil Engr

Command Window

clc

close all

syms n(t)

D = diff(n)

ode = (diff(b, t, 2) - diff(n, t) - (2 * n)) == 14 * t^3 - 12.5

cond1 = D(n) == -0.5;

cond2 = n(0) == 5;

conds = [cond1 cond2];

dsol(t) = dsolve(ode, conds);

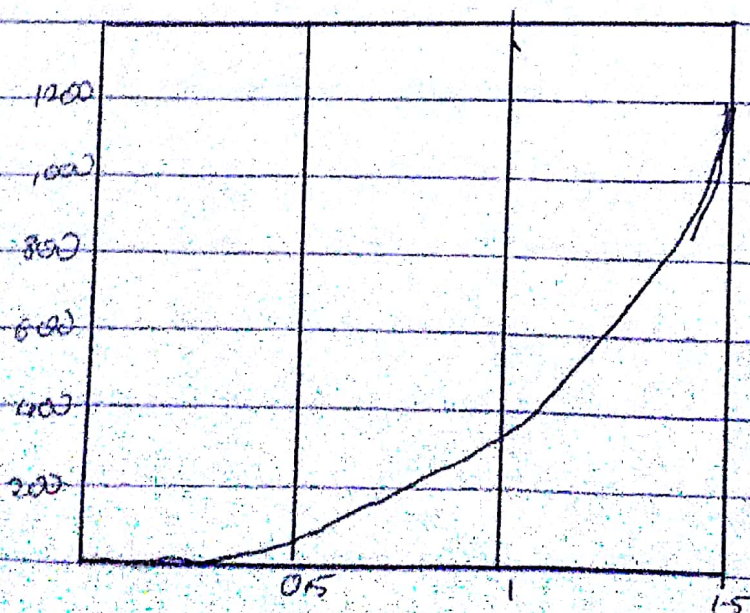
dsol = simplify(dsol(t))

tn = [0:0.1:1.5]

Penmy = subs(dsol, tn)

plot(tn, Penmy)

grid on



Command window

clear

clc

syms y(t) x(t)

Dy = diff(y,t)

Dx = diff(x,t)

eqn1 = Dy == exp(-2*t) + 2*x

eqn2 = Dx == exp(-1*t) - y

ode = [eqn1; eqn2]

sol = solve(ode)

y_sol(t) = sol.y

x_sol(t) = sol.x

#

1) Command window

clear

clc

syms f(s) s

$$u = (3.142) / (s^2) + 15 * 3.142 * s + 26 * (3.142 * s^3)$$

luptoe (4)

Command window

clear

clc

syms k w t s f(t) F(s) a

$$z = k * \exp(-a * t) * \sin(5 * w * t) * (2) * (3 * w * t)$$

luptoe (2)