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17/ENG102/020

ELECTRICAL ENGINEERING



1) Command window

close all

clear

clc

syms n(t), t.

odt = diff(n(t), 2) - diff(n(t)) = 4t² + 12t - 5.

Dn = diff(n, t)

ysol = dsol(Code)

Cono1 = (n == 5) 2

Cono2 = (i == -0.5)

Cond = (Cono1; Cono2)

ysol = dsol(Code, Cond)

t = 0: 0.1: 1.5

tn = sub(ysol, t)

plot(tn, t)

2

1) Command window

close all

clear

clc

syms n(t), t

ode = diff(n(t), 2) - diff(n(t)) = 44*t^2 + 12.5

On = diff(n, t)

ysoc = dsol(ode)

cond1 = (n == 5) 2

cond2 = (On == -0.5)

cond = (cond1; cond2)

ysol = dsol(ode, cond)

t = 0: 0.1: 1.5

tn = sub(ysol, t)

plot(tn, t)

2