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17/ENG02/020
ELECTRICAL ENGINEERING

1) Commond window

```
close all
clear
clc
syms n(t), t.
odt = diff (n(t),2) - diff (n(t)) + 4.4*t^3 + 12.5.
Dn = diff(n,t)
ysoc = dsol(ode)
Cond1 = (n==5) 2
Cond2 = (1==-0.5)
Cond = (Cond1; Cond2)
ysol = dsol (ode, Cond)
t = 0: 0.1: 1.5
tn = sub (y sol, t)
plot (tn, t)
```

2

1) Command window

```
Close all
clear
clc
syms n(t), t.
odt = diff (n(t),2) - diff (n(t)) + 44*t^3 + 12.5.
Dn = diff(n,t)
ysoc = dsol(ode)
Cond1 = (n==5) 2
Cond2 = (1==-0.5)
Cond = (cond1; cond2)
ysol = dsol (ode , cond)
    t = 0: 0.1: 1.5
tn = sub (y sol, t)
plot (tn, t)
     2
```