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DEPARTMENT: BIOMEDICAL ENGINEERING

MATRIC NO: 17/MHS07/022

commandwindow

clearvars

clc

format short g

syms t kp td tp

$v = kp * (1 - \exp(-((t - td)/tp)))$

mdata = xlsread('1587203818odevbesdata', 'data1');

t1 = mdata(:,1);

v = mdata(:,2);

V1 = round(mdata(900,2),1)

t0 = ones(length(v),1)

t = [t0 t1]

[mcoeff, mcoeffint, mresid, mresidint, manova] = regress (v,t);

%mcoeff

%rsquaredvalue = mcoeff(1)

mcoeff

manova

kp = V1

td = -mcoeff(1)

tp = mcoeff(2)

plot(t,v(:,1));

grid on

grid minor

```
Beta = nlinfit(V,t,vf,beta0)
```

```
Beta0 = [t0 t1 ]
```

```
Plot(t,Beta)
```

