

3. Differential Equations

The MATLAB program template for a Polymath program involving differential equations is given in the box below. This can be copied into the MATLAB editor and saved as **MultipleDEQtemplate.m** for future use.

```
function % Insert here your file name after function (Use Alphanumeric names only)
clear, clc, format short g, format compact
tspan= % Replace this line with tspan line from Polymath report
y0= % Replace this line with y0 line from Polymath report
disp(' Variable values at the initial point ');
disp([' t = ' num2str(tspan(1))]);
disp(' y dy/dt ');
disp([y0 ODEfun(tspan(1),y0)]);
[t,y]=ode45(@ODEfun,tspan,y0);
for i=1:size(y,2)
disp([' Solution for dependent variable y' int2str(i)]);
disp([' t y' int2str(i)]);
disp([t y(:,i)]);
plot(t,y(:,i));
title([' Plot of dependent variable y' int2str(i)]);
xlabel(' Independent variable (t)');
ylabel([' Dependent variable y' int2str(i)]);
pause
end
% -----
% Replace this and the following line with the function copied from the Polymath report
% Do not include the tspan and y0 lines
```

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