



Brian Fabien

Analytical System Dynamics

Modeling and Simulation



```
clear all;
close all;
close os;
close ps;
tspan = 0:0.001:0.01;
x0 = 0; % Initial condition
x1 = 1; % Initial condition
x2 = 0; % Initial condition
tspan = 0:0.001:0.01;
tspan = 0:0.001:0.01;
tspan = 0:0.001:0.01;
```

```
plot(tspan,x1,'b');
hold on;
plot(tspan,x2,'r');
plot(tspan,x3,'g');
```

$$\begin{aligned} \dot{x}_1 &= -x_1 \\ \dot{x}_2 &= x_1 - x_2 \\ \dot{x}_3 &= x_2 - x_3 \end{aligned}$$

$$\begin{aligned} \dot{x}_1 &= -\frac{1}{0.01}x_1 \\ \dot{x}_2 &= \frac{1}{0.01}x_1 - \frac{1}{0.01}x_2 \\ \dot{x}_3 &= \frac{1}{0.01}x_2 - \frac{1}{0.01}x_3 \end{aligned}$$



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