%%% Define Values %%%

l=10;

a=1;

s=0.2;

prod\_elast=0.33;

d=0.1;

%%% Define Functions %%%

c = [0 0.5 1 2 3 4 5 6 7 8 9 10 20 30 40];

f=s\*a\*(c).^prod\_elast\*l.^(1-prod\_elast)-d\*(c);

inv=s\*a\*(c).^prod\_elast\*l.^(1-prod\_elast);

dep=-d\*(c);

%%% Plot Phasendiagramm %%%

plot(c,f,'color','r','Linewidth',2); hold on;

plot(c,inv,'color','b','Linewidth',2); hold on;

plot(c,dep,'color','g','Linewidth',2); hold on;

hline = refline([0 0]);

hline.Color = 'k';

grid on

title('Phasendiagramm');

xlabel('K');

ylabel('dK/dt');

legend('dK/dt','Investitionen','Abschreibungen')