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function [ ] = kaldor_income_goods( )
%Written by Elmer G. Wiens june 2019

clear
syms y k

s = .2; d = .2; b = .5; il = 1; yd = 5; yk = 4; ti = 1.8; r = 1;
alpha = 4; ts = .6;
ke = 1.5;
k = ke;

inv = r*tanh(b*(y - yk)) + ti - il*k
sav = s * (y-yd)* k + ts

dy = alpha*(inv - sav)

figure(1);
hold on;
nxax = 0;pxax = 8; nyax = -1;pyax = 2;
axis([nxax pxax+1 nyax pyax])
plot(zeros(100),linspace(nyax,pyax), 'LineWidth',2)
plot(linspace(nxax,pxax+1),zeros(100), 'LineWidth',2)

title({'Kaldor: Income-Goods Model', 'I:Blue, S:Red, dy:Green'},
'FontSize',15)
ylabel('I, S, dy', 'FontSize',17)
xlabel('y', 'FontSize',17)

w = linspace(nxax, pxax, 100);

for i=1:length(w)
    q1(i) = double(subs(inv, y, w(i)));
    q2(i) = double(subs(sav, y, w(i)));
    q3(i) = double(subs(dy, y, w(i)));
end

plot(w,q1, 'b', 'LineWidth',3);
plot(w,q2, 'r', 'LineWidth',3);
plot(w,q3, 'g', 'LineWidth',3);

return

```