## Answer on Question \#51593, Economics - Macroeconomics

## Assignment

Given that:
$C=0.5 Y+50$
$I=-10 r+650$
$M s=3000$
$L 1=0.4 Y$
$L 2=-15 r+2750$
$M d=L 1+L 2$
Where:
L1 = Transaction and Precautionary demand for money
L2 = Speculative demand for money
Determine the equilibrium values of national income $(Y)$ and interest rate $(r)$ on the assumption that the commodity and money markets are in equilibrium. Show the equilibrium values of $Y$ and $r$ on a graph

## Solution

We can calculate this as follows:
$M s=M d$
$3000=L 1+L 2$
$0.4 Y-15 r+2750=3000$
$\mathbf{0 . 4 Y - 1 5 r}=\mathbf{2 5 0}$
$Y=C+1$
$Y=0.5 Y+50-10 r+650$
$0.5 Y+10 r=700$
$Y=1400-20 r$
0.4 (1400-20r) -15r $=250$
$560-8 r-15 r=250$
$23 r=310$
$r=13.5$
$Y=1400-20 r=1130$



