Please write all answers neatly and legibly.

1. (3 points) Suppose the loanable funds market is initially in equilibrium. Holding everything else constant, if the government increases the size of its surplus what do you predict will happen to the equilibrium interest rate and the equilibrium level of private investment spending? Explain your answer verbally and also provide a graph of the loanable funds market to support your analysis. Make sure your graph is completely and fully labeled.

i rate

SG < SG' since ourplus ? interestrate will & from i, to iz investment will I from I, to I 2

Supply of loanable funds curve will thist to right (SLF to SLF1) when the government in creases the size of its surpus. Equilibrium in the loanable funds market will change from point A to point B: interest nate will full from i, to iz and investment Spending will increase from I, to Iz

2. (2 points) Suppose the loanable funds market is initially in equilibrium. Holding everything else constant, what will happen to the equilibrium interest rate and the equilibrium level of private savings if the country runs a trade surplus? Explain your answer verbally and also provide a graph of the loanable funds market to support your analysis. Make sure your graph is completely and fully labeled. Sie': SptSG+KI

1 rate

~ SUF: Spt SG SCF will shift left with trade Surplus

When The country run a trade Surplus (X>M) This implies that Capital inflows are negative (if

ON LF X-M > 0 then M-X < 0). The Supply Joanable funds curve will shift from Sef to SEF'. Equilibrium in

LF,

BLF! [

The loanable funds market will change from
Point A to Point B: interest rate will I
Increase from i, to iz; private saving will increase
will decrease from I, to Iz; private saving will increase
will decrease from I, to Iz; private saving will increase

T = 10G = 20I = 20X - M = -20where Sp is private savings, Y is real GDP, T is autonomous taxes, G is government spending, I is private investment spending, and (X - M) is net exports. Assume there are no government transfers. a. (1 point) From this information we know that the government is currently operating with a Budget Deficit and that the economy has a trade Deficit.

6 = 20: T = 10 => 6 - T = 20 - 10 = 10: gort spending > gort sevence => Budget Deficit. X - M = -20 => Imports > Exports >> To add the first b. (1 point) What is this economy's consumption function with respect to Y? C= a + b (Y-7) since TR = 0 $Sp = -a + (1-b)(Y-T) \Rightarrow Sp = -20+, 2(Y-T)$ So, $C = 20 + .8(Y-T) \Rightarrow C = 20 + .8[Y-10]$ Conception with respect to

Conception with respect to

Conception with respect to

Conception with respect to the conception with the seconomy given the above information? For full gradit shows a seconomy given the above information? For full credit show your work. In equilibrium, Y=AE Ye= 2 + I + G + (X-M) Ye = 12+.8/e+20+20+ (-20) (1 point) What will be the change in GDP if the government of this economy increases its spending to 40 while holding everything else constant? For full credit show your work. 6 = 20 Mitsally 5) now 6' = 40 DY = (1-6) (AG) 14 = 5(20)=100 Or, Y' = AE' Ye'=12+.8/e'+60+20+(-20) Yé,=12+.8/é+40+20+(-20) , 24e' = 72 Ye' = 360 DY = Ye' - Ye = 360-160=200 1e - 260 Dy = Ye' - Ye = 260 - 160 = 100

3. Suppose that an economy can be described with the following information:

Sp = -20 + .2(Y - T)