Stephanie Hutson 1 a) Are firmo on thier belon curve? Yes. We see

 $Y_1 = A_1 N_1$ and  $W_1/p_1 = A_1$ 

which is the level of mage
the firm would choose to maximore
profits

b) Households on thick labor curve?

No. The tradeoff between consumption and labor plays no role in the SR equilibrium

c) The households supply the level of laton required by the firm to produce the goods demanded by the households going prices and wager

d) LR Steady State

 $C_{+} = C_{++1} = C^{*}$   $M_{-}/p_{+} = M_{-}/p_{++} = (M/p)^{++}$   $W_{-}/p_{+} = W_{-}/p_{++} = (M/p)^{++}$   $W_{-}/p_{+} = W_{-}/p_{++} = (M/p)^{++}$   $W_{-}/p_{+} = W_{-}/p_{++} = W_{-}/p_{++}$   $W_{-}/p_{+} = W_{-}/p_{++} = W_{-}/p_{++}$   $W_{-}/p_{+} = W_{-}/p_{++} = W_{-}/p_{++}$   $W_{-}/p_{+} = W_{-}/p_{++} = W_{-}/p_{+}$ 

1= β Q\*π\* -> Q\* = 1/3π. M/p = 5 /V (1-βπ\*) - 1/V C 8/V A = XNY/C-Y

M. exogenous, Pz from forward eq.

M. A. /Wo = = (0,-1) B Wo A./Pz )-1/V C+ 6/V

Solve for O.

Plug P., M. Q back noto

(\*) M./P. = 5 1/4 (1- \frac{1}{a}.) -1/4 (.8/4) solve for C. = Y. 9) The Classical dichotomy dues not hold in the short dun.

We see that in (\*) M'/P, are determined from exogeneus factor

then C, is set by M'/P, a, thus we comput sepanda money from ual ansimption. h) Consider (4 (Q.-1) BP/Pz)-1/0 C\* 8/V  $M, = (Q, -1)^{-1/\nu} \left[ \phi \right]$ unere  $\phi$  are constants in this environment. Q.=(M./p)-V 26(pM= -VM,-V-) <0 fm M. 70 an increase in M would occrease An increase in  $Q \Rightarrow (1-\frac{1}{4})$  increases  $\Rightarrow (1-\frac{1}{4})^{-1/\nu}$  decreases

Then from  $M/p = S^{-1/\nu}(1-\frac{1}{4})^{-1/\nu}C^{-1/\nu}C^{-1/\nu}$ Consumption and welfne autput  $\uparrow$ .

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- h) the words, an increase in Money supply, Recourse it does not change prizes i which an fixed by the wage, decrease the hhis marginal return to money. Because they demand more goods, thus output
  - i) elf A. were to increase, given fixed wager, priver decrease. Then M./p. is greater, leading the marginal return to drop thus for the same reason as in (n), consumption and therefore output increase.

j) Laton wedge

(1- T,")= MRS/MPL

= XN, 4C, 8/A= = XN 4+8 A, 8-1

=> A.7 -> N. > if 8<1

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So the wedge is high. Loubon is Counter Cyclical with Productivity.

R) To discriminate both sticky periet and wager, Il would target the labor wedge. In sticky prices would, labor is procyclical, in strekey wager, labor is countercyclical.