In the model with imperfect competition but no price stickiness, we derive the following equations:

1. Firm *i*'s optimal pricing equation:
$$\frac{P_i}{P} = \frac{\eta}{\eta - 1} \left(\frac{W}{P} \right)$$

2. Demand curve for firm *i*'s product:
$$Y_i = \left(\frac{P_i}{P}\right)^{-\eta} Y$$

3. Labor supply curve for economy:
$$L = \left(\frac{W}{P}\right)^{\frac{1}{\gamma-1}}$$

4. Production function:
$$Y_i = L_i$$
 or $Y = L$

Next we will add in an aggregate-demand curve Y = M/P.

Using these equations, solve for Y, L, and P in terms of M, noting that in equilibrium all firms will set the same price (because they are symmetric) and therefore $P_i/P = 1$. Are these values optimal? Does aggregate demand (M) affect output or employment? How does M affect prices? Is money neutral in this model?