

Partner assignments

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Problems

- **Romer's Problem 9.6.** Your answer to each part should include a phase diagram, a verbal description of what is happening, and time paths for q and the capital stock.

- **Variant of Romer's Problem 10.1.**
 - a. Suppose that $b = 1$ in Romer's equation (10.13). In this case, how does x relate to the expected earnings of someone who loses a job? Why does this make sense in equation (10.12)? Explain the logic of the paragraph following these equations in terms of this interpretation.
 - b. Work part (a) of Problem 10.1.
 - c. Determine (if possible) the signs of the effects of each parameter (β , b , f , and μ) on the unemployment rate and explain the intuition of these effects.
 - i. How do the effects of the union parameters f and μ ($\partial u / \partial f$ and $\partial u / \partial \mu$) depend on the values of b and β ?
 - ii. Explain why a change in b might affect how sensitive equilibrium unemployment is to unionization.
 - iii. Explain why a change in β might affect how sensitive equilibrium unemployment is to unionization.
 - d. Suppose that (as in Romer's part (b-i)), $\beta = 0.06$ and $b = 1$.
 - i. What would the unemployment rate be if there were no unions ($f = \mu = 0$)?
 - ii. What would the unemployment rate be if, as Romer posits in part (b), $f = \mu = 0.15$?
 - e. Suppose that (as in Romer's part (b-ii)), $\beta = 0.03$ and $b = 0.5$.
 - i. What would the unemployment rate be if there were no unions ($f = \mu = 0$)?
 - ii. What would the unemployment rate be if, as Romer posits in part (b), $f = \mu = 0.15$?
 - f. Explain how the results of parts d and e illustrate the results of part c.

- **Romer's Problem 10.9.** Be sure to explain the intuition of your results.