## Econ 362, Macroeconomic Theory

Problem set on job finding, job separation and the equilibrium unemployment rate.

As in the model presented in class, U is the total number of unemployed people. E is the total number of employed people. The labor force L = U + E. The number of people in the labor force is fixed. The unemployment rate is u = U/L. The number of people losing jobs in a period is *sE* where *s* is a fraction (between zero and one).

## Unlike the model presented in class,

the number of unemployed people finding jobs in a period is fU - gE where f and g are both fractions (between zero and one).

Derive the long-run equilibrium value of the unemployment rate u. Show your work!