

6.1) Job Loss, Job Finding and NRoU

→ Answer

Call the number of students working in team I , the number who are not in team U , and the total number of students $T = I + U$. In steady state the total number of students not working in team is constant. For this to happen we need the number of students breaking up teamwork, $(0.12)I$, to be equal to the number of students who just joined teamwork, $(0.04)U$. Following a few substitutions:

$$\begin{aligned}(0.04)U &= (0.12)I \\ &= (0.12)(T - U),\end{aligned}$$

so

$$\begin{aligned}U/T &= 0.12 / (0.12 + 0.04) \\ &= 3/4.\end{aligned}$$

We find three quarters of students learn on their own.