ECON3120/4120 - Mathematics 2, fall term 07: Problems for seminar 3, Sep. 24

- **1** L.A: 2.6.2. (EMEA: 15.9.2.)
- **2** The price vector is (2,3,5) and you can afford the commodity vector (10,5,8). What is your budget constraint?
- **3** Exam problem 43.
- **4** Suppose Y=Y(t) is national product, C(t) is consumption at time t, and \bar{I} is investment, which is constant. Suppose $\dot{Y}=\alpha(C+\bar{I}-Y)$ and C=aY+b, where a,b, and α are constants with 0< a< 1. Derive a differential equation for Y. Find its solution with $Y(0)=Y_0$ is given.
- **5** Exam problem 111.