5.6 Handout

- 1. For the following descriptions, write down the system of DE and find the nullclines and equilibria.
 - (a) per capita growth of prey = 1-0.05p, per capita growth of predators = 1+0.001b

(b) per capita growth of prey = $2 - 0.0001p^2$, per capita growth of predators = -1 + 0.01b

2. Write down a system of DE for the disease model where people who recover become immune. Then find the nullclines and equilibria.