

1. A population of iguanas lives on an island. The population gives birth at a rate that is proportional to the size of the square of the population. It dies at a rate that is proportional to the size of the population.
  - a) Write down a differential equation that describes the rate of growth of the population.
  - b) What are the equilibria? Classify them.
  - c) What will be the long term population size? Your answer will depend on the initial population size.
2. 2.3 # 17
3. 4.2 # 13, 14, 16, 18, 20