Problem Set #6

MACSS 40000

Weijia Li

Problem 1

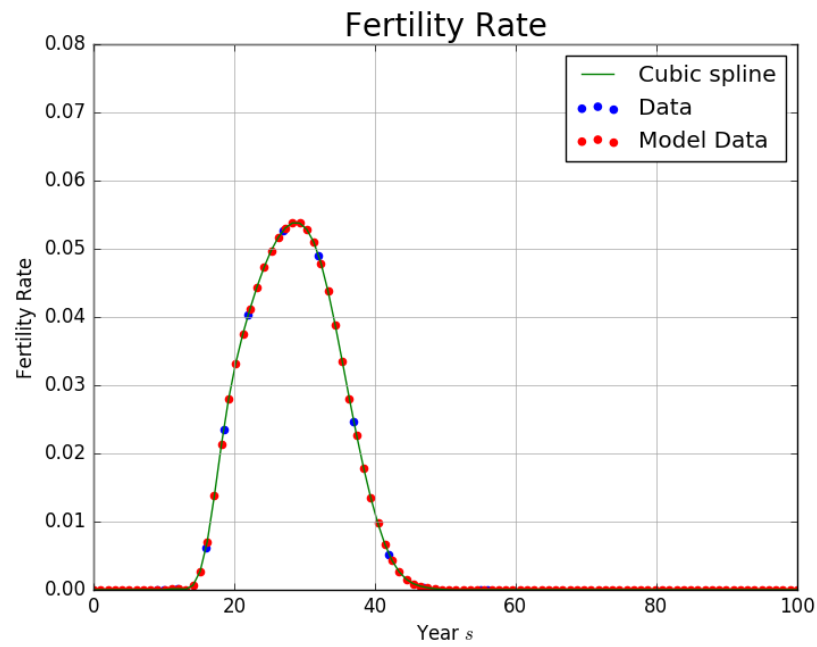(a)

Figure 1: Fertility Rate for 100 Periods
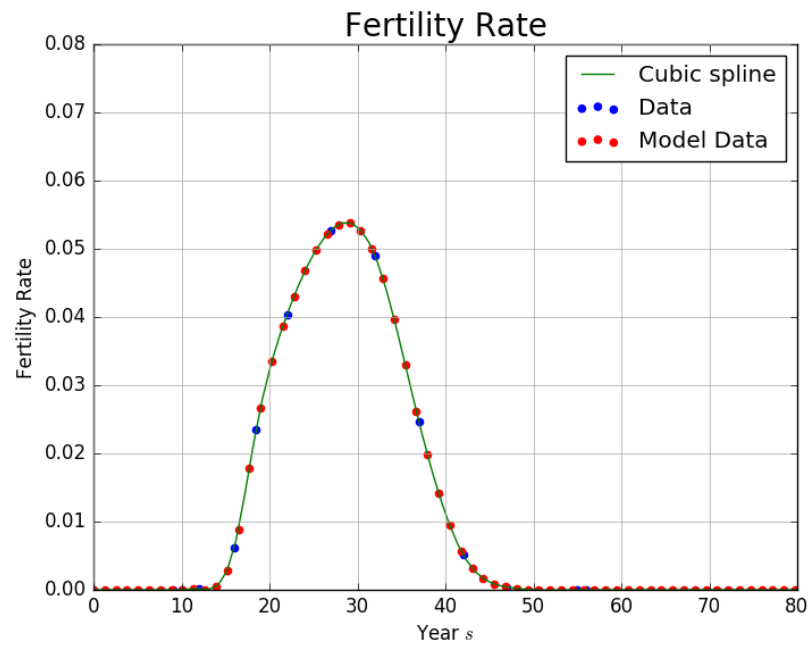
(b)

Figure 2: Fertility Rate for Period 80
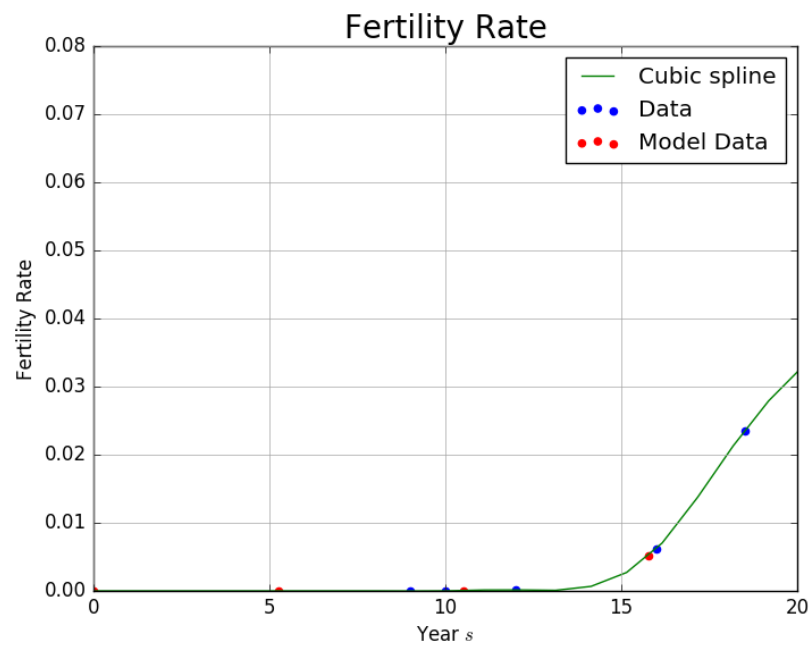
(c)

Figure 3: Fertility Rate for Period 20

Problem 2

(a)

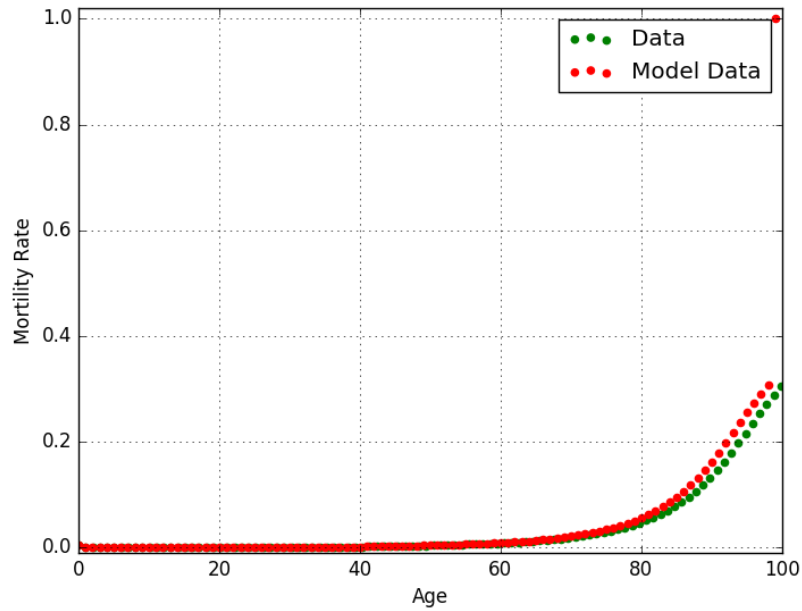The plot is shown as following:

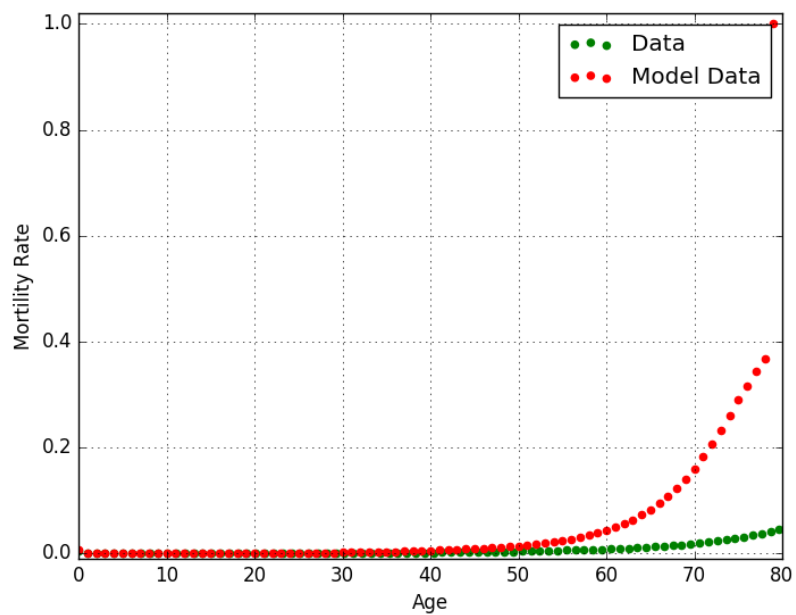**Figure 4: Mortality Rate for 100 Periods**

(b)

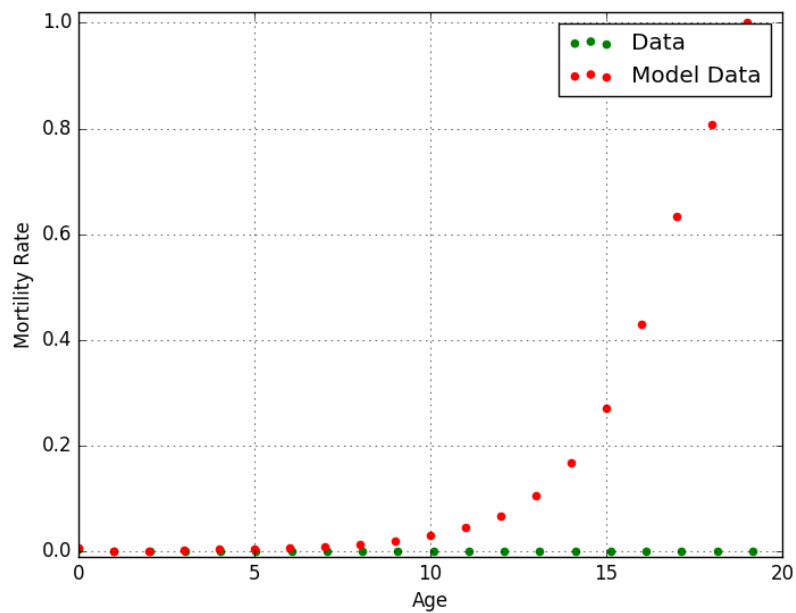**Figure 5: Mortality Rate for 80 Periods**

(c)

Figure 6: Mortality Rate for 20 Periods

Problem 3

(a)

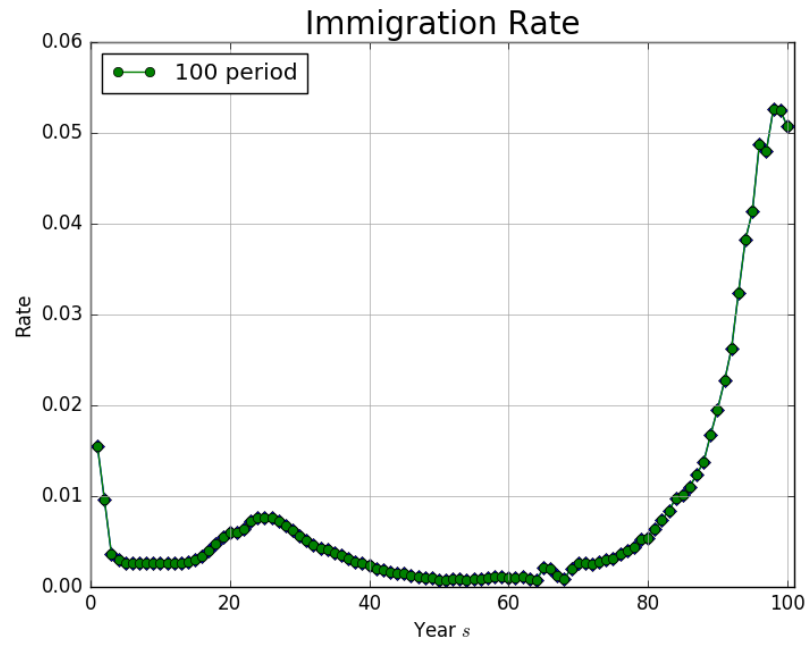The plot is shown as following:

Figure 7: Immigration Rate for 100 Periods
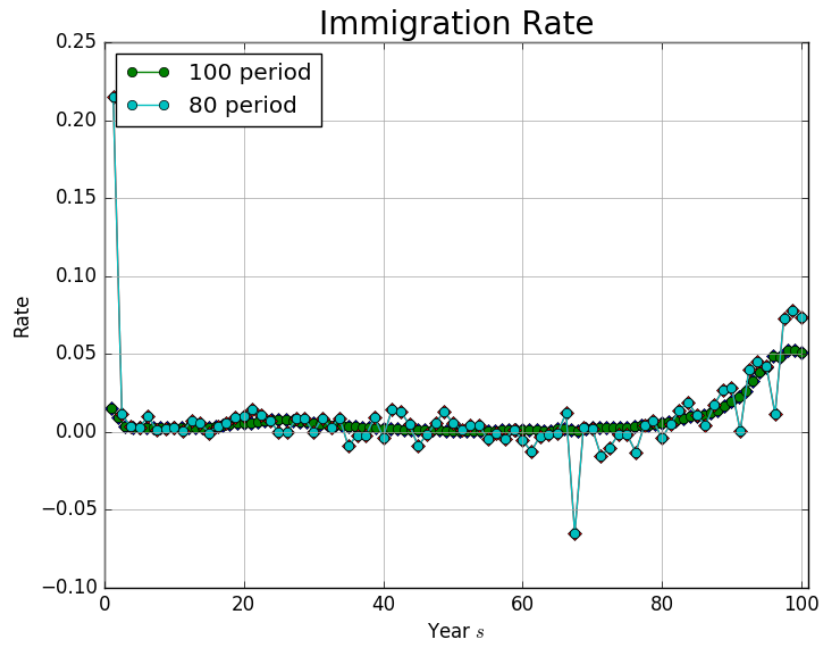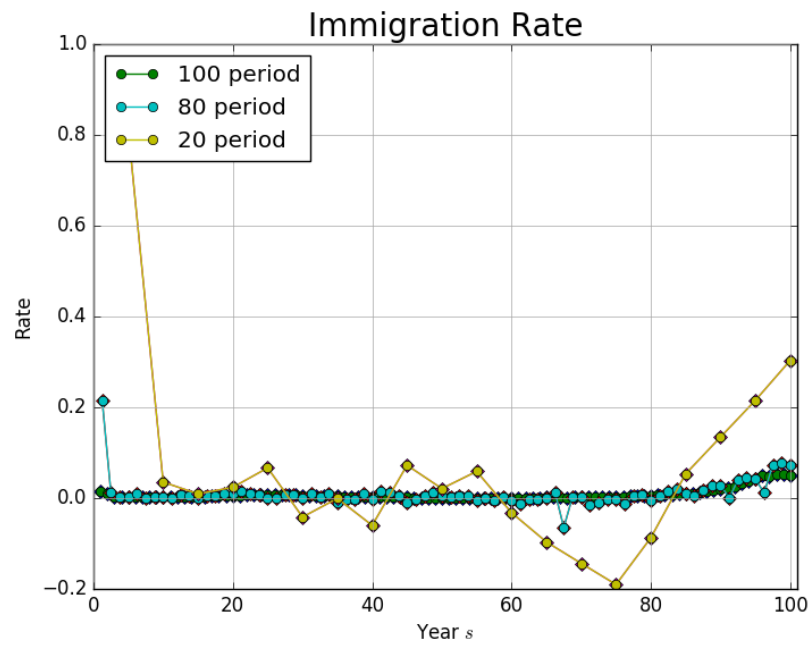
(b)

Figure 8: Fertility Rate for 100 and 80 Periods

(c)

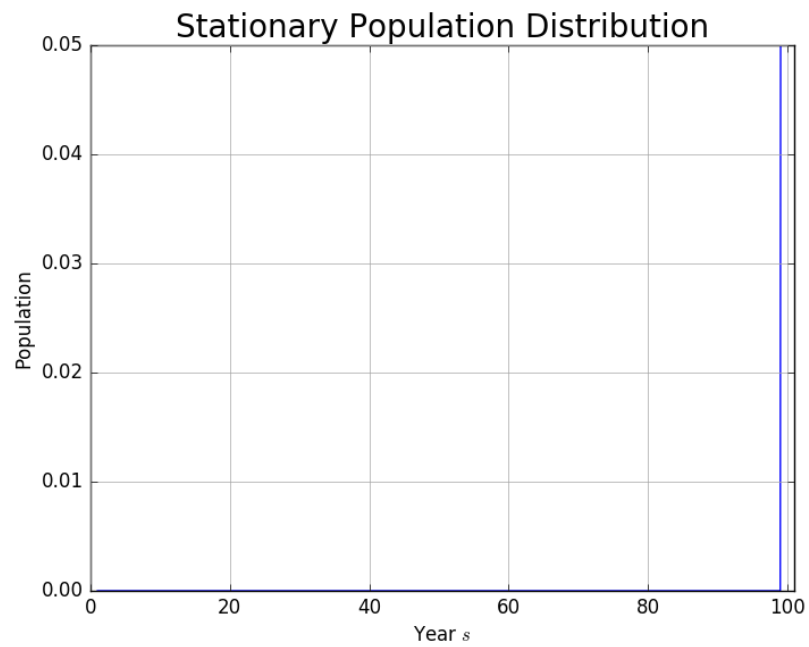Figure 9: Fertility Rate for 100 and 80 and 20 Periods

6

Problem 4

(a)

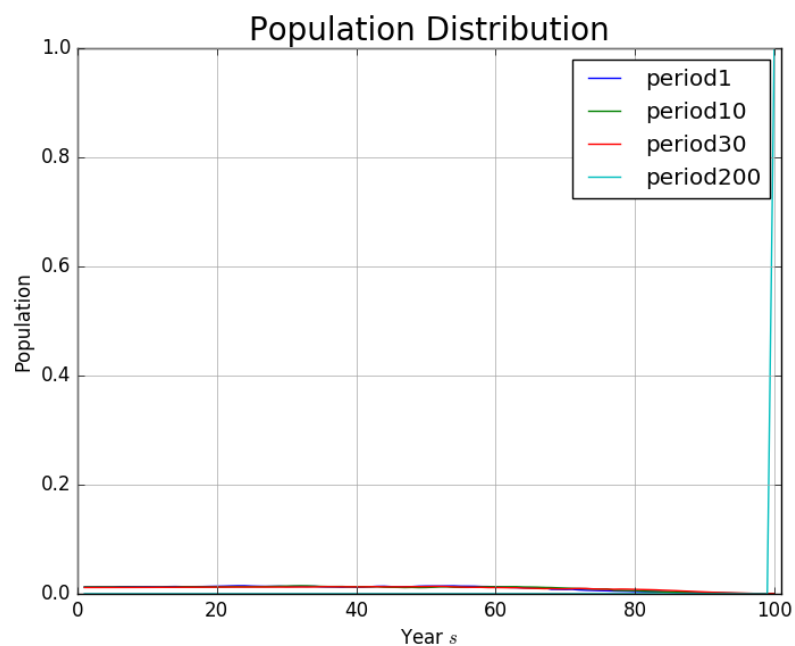Figure 10: Stationary Population Distribution

(b)

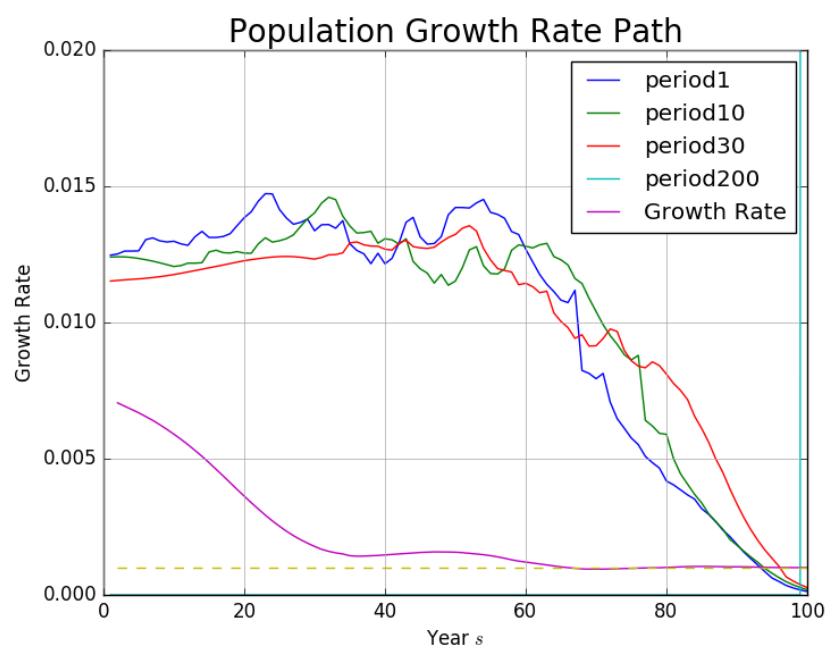**Figure 11: Population Distribution for Multiple Periods**

(c)

Figure 12: Population Growth Rate Time Path

Problem 5
Problem 6