

## 中微第三次作业

### 1 Multiple-choice

1-5: BCB BB

### 2 Short-answer

6.

(1)

$$LAC = q^2 - 6q + 15$$

$$K = 2$$

(2)

$$P = 6$$

$$N = 100$$

(3)

$$\pi = 512$$

7.

(1)

$$Q = 15$$

$$\pi = 450$$

(2)

$$x = 20$$

8.

(1)

(2)

$$\text{when } n = 1, p_1 = 50, \pi = 900$$

$$\text{when } n = 2, P_1 = 40, P_2 = 60, \pi = 1200$$

(3)

$$P_m = \frac{60m}{n+1} + 20$$

$$\pi = \frac{1800n}{n+1}$$