Name:

Answer the questions in the spaces provided on this sheet. Your scans must be clear, aligned, cropped properly; pages in order and saved in a single pdf file in black and white.
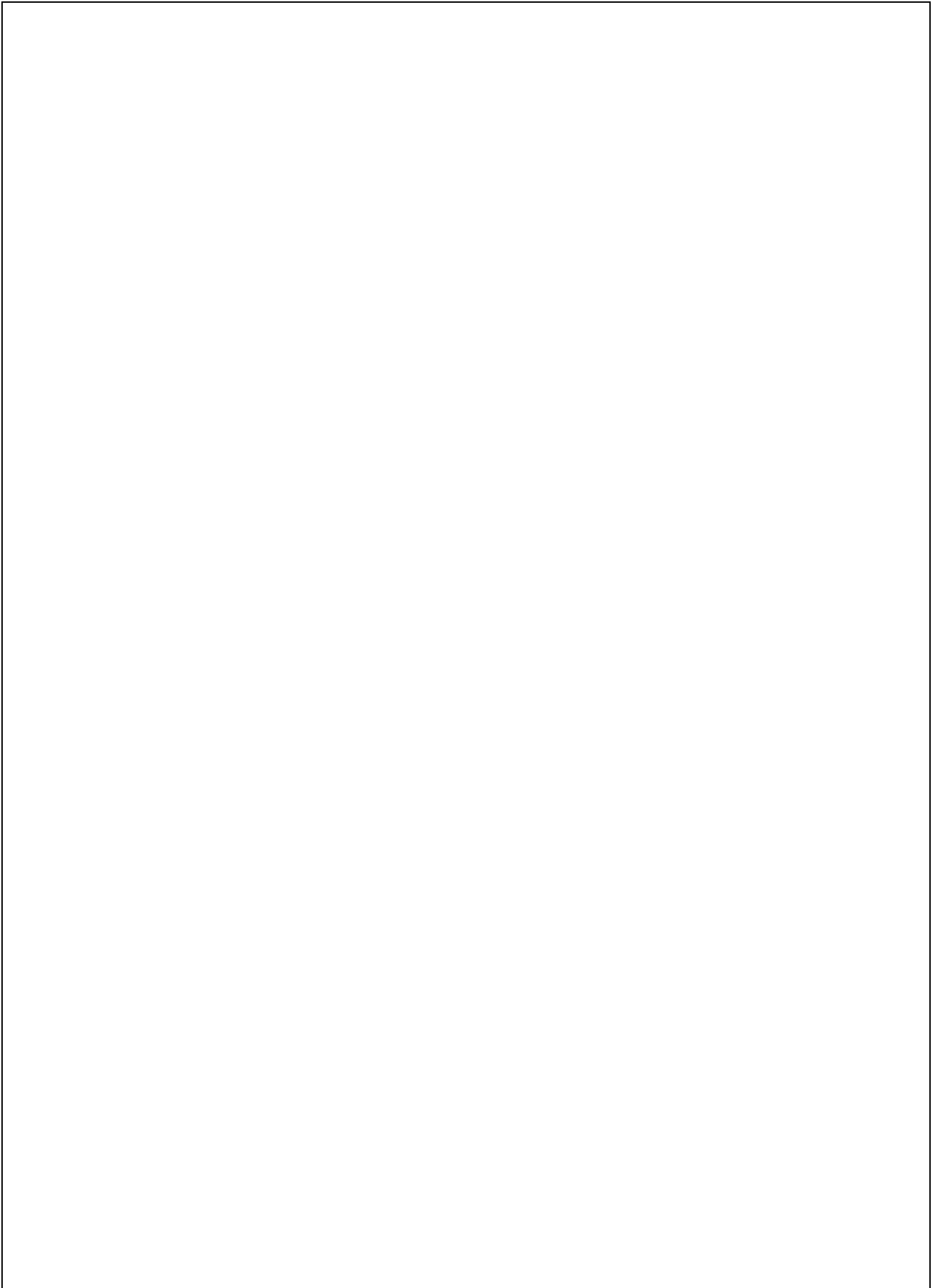
1. Exercise 1.12 from the text.

   (a)

   (b)

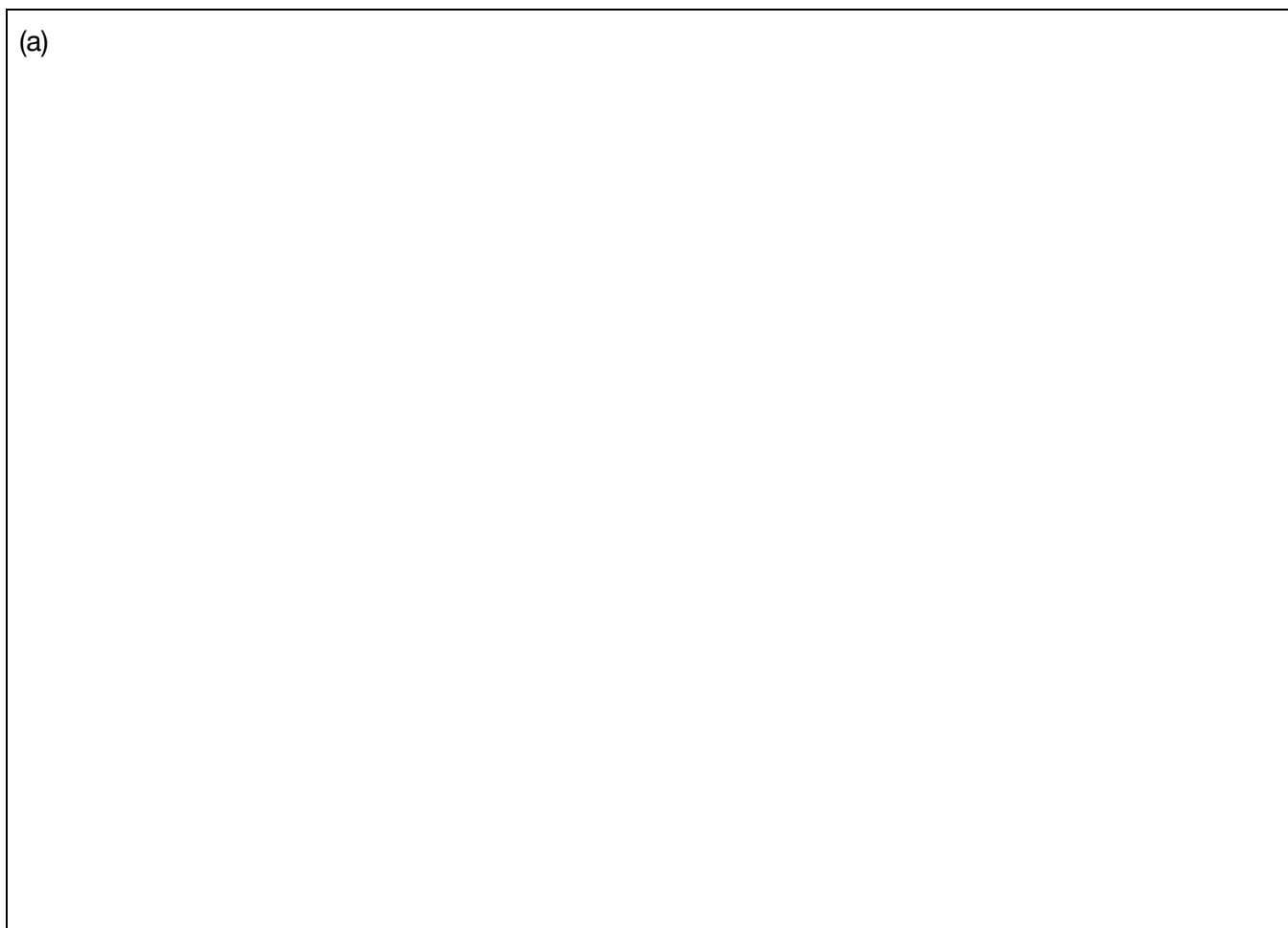2. Exercise 1.15 from the text.

(a)

(b)

3. Exercise 1.19 from the text.

4. Exercise 2.1 from the text.

5. Exercise 2.7 from the text.

(a)

(b)

Extra problem. Suppose we draw 7 cards out of a well-shuffled deck of 52 poker cards. What is the probability that we get 4 of one kind and 3 of another, for example (AAAA777)? Briefly explain your answer.