

## Sheet 5: Expectation, variance, joint distributions

---

**NOTE:** All results should be rounded to two decimal places unless otherwise stated. If a number or result has fewer decimal places, it is okay to keep fewer. For probabilities, give two decimal places when expressed in percentage (e.g., 12.34%) and four decimal places when expressed as numbers (e.g., 0.1234).

### **Exercise 1**

[D, Section 3.3, Exercise 29]

### **Exercise 2**

[D, Section 3.3, Exercise 32]

### **Exercise 3**

[D, Section 4.2, Exercise 13]

### **Exercise 4**

[D, Section 4.2, Exercise 17]

Read the Definition on p. 144 first.

### **Exercise 5**

[D, Section 5.1, Exercise 1]

### **Exercise 6**

[D, Section 5.1, Ex. 13]

### **Exercise 7**

[D, Section 5.1, Exercise 9]

### **Exercise 8**

[D, Section 5.1, Exercise 19]