

## Exercises for Chapter 10

**Exercise 96.** Prove that if a connected graph  $G$  has exactly two vertices which have odd degree, then it contains an Euler path.

**Exercise 97.** Draw a complete graph with 5 vertices.

**Exercise 98.** Show that in every graph  $G$ , the number of vertices of odd degree is even.

**Exercise 99.** Show that in very simple graph (with at least two vertices), there must be two vertices that have the same degree.

**Exercise 100.** Decide whether the following graphs contain a Euler path/cycle.

