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.