1. Canada has 10 provinces: Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland and Labrador, Nova Scotia, Ontario, Prince Edward Island, Quebec, and Saskatchewan. Draw a graph representing Canada as follows: each province is represented as a vertex, and there is an edge between two vertices if and only if the corresponding provinces share a border. Make sure to label your vertices with the names of the provinces. You are allowed to look up a map of Canada.

2. Consider the following graph.

(a) Write the degree of each vertex.

(b) Does the graph have an Eulerian Walk? If so, label the edges in the order of such a walk (or list the vertices in order). If not, why?

(c) Does the graph have an Eulerian circuit? If so, label the edges in the order of such a circuit (or list the vertices in order). If not, why?