

Homework assignment 4 is due Friday Feb 26 the day of our first mid term. It consists of only one problem.

4.1 Suppose you did a random walk on an undirected graph and you kept track of the degrees of vertices that you encountered. Specifically you record the number of vertices of each degree. How do you estimate the fraction of vertices of the graph that are of each degree from this data?

You might consider the following graph in which you would encounter many more degree three vertices than degree two vertices even though there are an equal number of degree two and degree three vertices.

