CSCI 281, Assignment 09 – Graphs(20 points)

- 1. (5 points) Draw a graph with:
 - 1. At least 10 vertices
 - 2. An edge with multiplicity three
 - 3. At least three vertices that are all adjacent to one another
 - 4. A vertex of degree five

Note: This is not *simple* graph.

- 2. (5 points) Draw a simple graph with:
 - 1. Seven vertices
 - 2. One vertex with degree six
 - 3. Six vertices with degree one
- 3. (5 points) Draw a simple graph G where:
 - 1. |V(G)| = 6
 - 2. $\forall v \in V(G), deg(v) = 5$, where deg(v) is the degree of vertex v
- 4. (5 points) Define a simple graph G where:
 - 1. |V(G)| = 10,000
 - 2. $\forall v \in V(G), deg(v) = 0$