

This project asks you to create a weighted graph.

Create a weighted graph such that it has the following properties.

- The vertices represent places in the area that are of interest to you (MSUM or buildings at MSUM, your work, home, favorite stores, restaurants, parks, etc.).
- There are at least eight vertices but no more than twelve.
- The weights on the edges are the travel time between the places, by the mode of transportation that you usually use to travel between the two respective locations.
- Two vertices will be connected if reasonable and only if reasonable.
 - The idea is that you will connect two vertices only if you typically to travel directly from one to the other, without stopping at another one of the places that you have represented in your graph on the way.
 - The graph should not be a complete graph. (Remember that a complete graph is one where every pair of vertices are adjacent to each other.)
 - The graph should not be a simple path or a simple circuit (there should be some “branches” at places).
 - The graph should contain some circuits. (For example, it would be reasonable to see the circuit home–school–work–home.)

Now, for your graph, state the circuit or path that would best represent your day yesterday, and give the weight of that circuit/path.