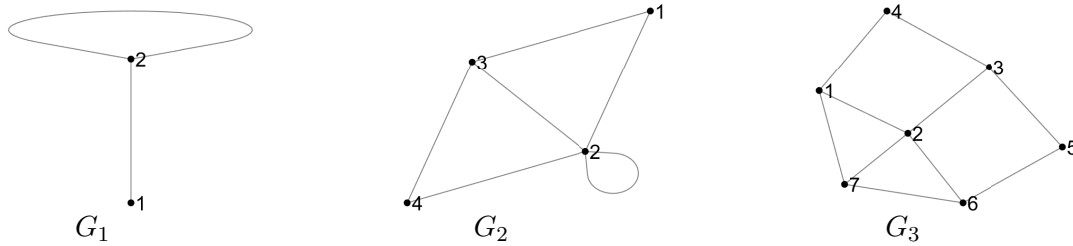


MATH.APP.270 Algorithms for graphs

Programming assignment 1: graphs for testing

2022

The graphs that you should use for testing your code are presented here:



The following table contains the input files for these graphs:

graph	Python input file	Matlab input file
G_1	G01Python.txt	G01Matlab.m
G_2	G02Python.txt	G02Matlab.m
G_3	G03Python.txt	G03Matlab.m

For each of these graphs, all minimal spanning trees have been generated for one or more starting vertices. For each starting vertex, a summary of all minimal spanning trees have been compiled in a single file. These files are given in the following table:

graph	starting vertex s	Python file containing all minimal spanning trees	Matlab file containing all minimal spanning trees
G_1	1	G01Start1Trees.txt	G01Start1Trees.m
G_1	2	G01Start2Trees.txt	G01Start2Trees.m
G_2	3	G02Start3Trees.txt	G02Start3Trees.m
G_2	4	G02Start4Trees.txt	G02Start4Trees.m
G_3	2	G03Start2Trees.txt	G03Start2Trees.m
G_3	4	G03Start4Trees.txt	G03Start4Trees.m
G_3	6	G03Start6Trees.txt	G03Start6Trees.m
G_3	7	G03Start7Trees.txt	G03Start7Trees.m

Note that the trees are interpreted as being directed; all edges point away from the starting vertex s .