weighted directed graph

Weighted Directed Graph
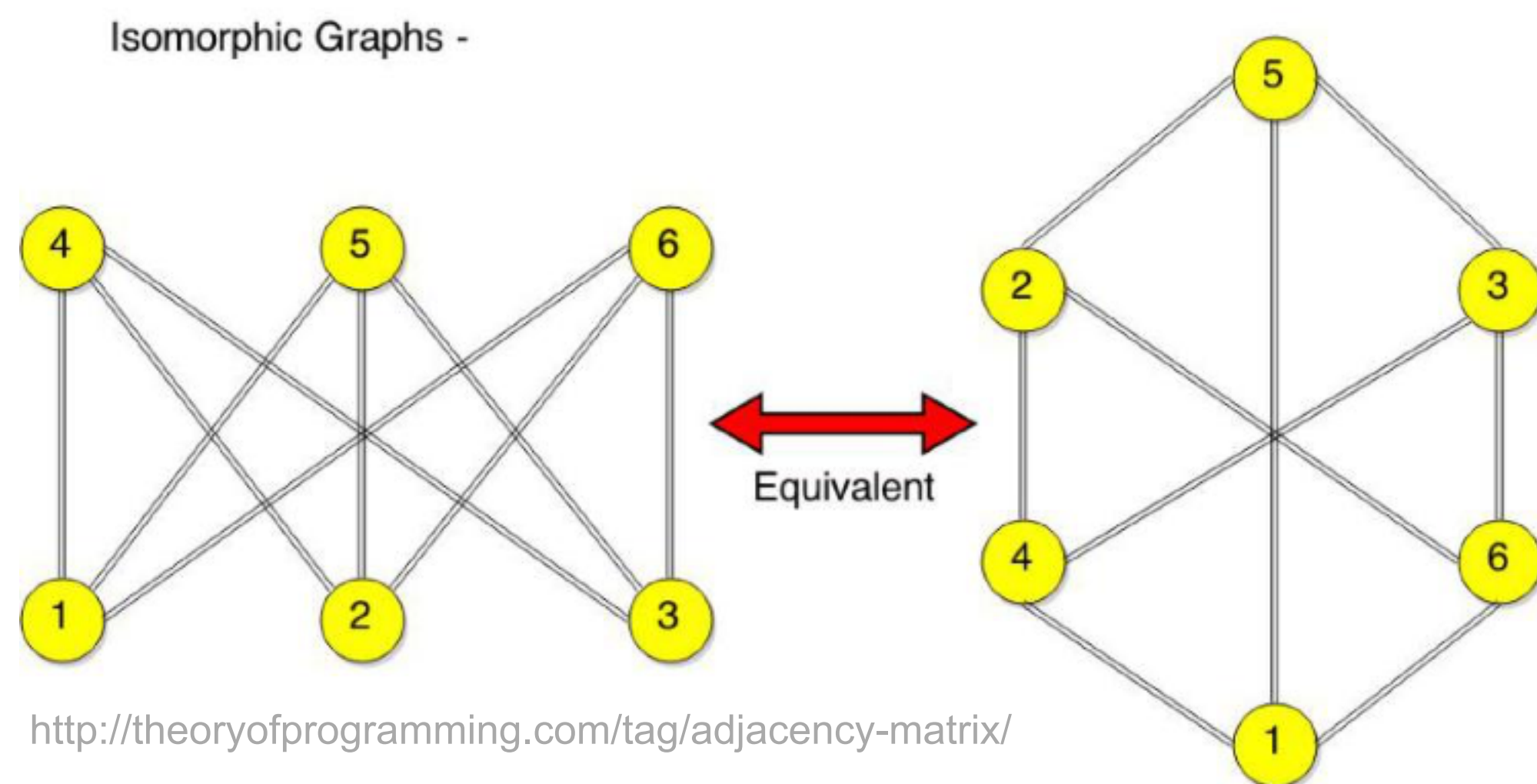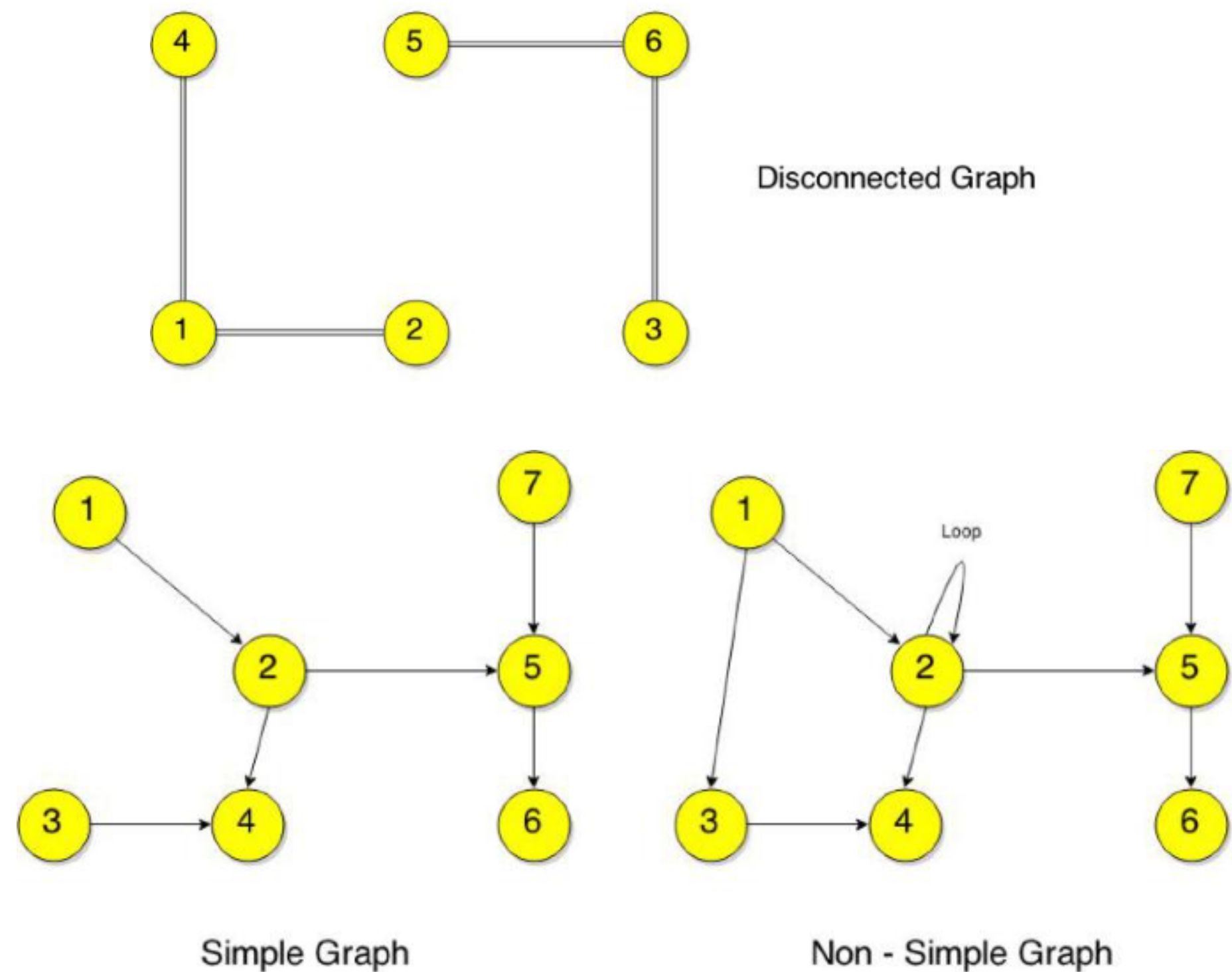

Adjacency Matrix

to →	Vertex 1	Vertex 2	Vertex 3	Vertex 4	Vertex 5	Vertex 6	Vertex 7	Vertex 8	Vertex 9
Vertex 1	0	7	0	0	0	0	0	0	0
Vertex 2	0	0	0	5	9	0	0	1	0
Vertex 3	0	0	0	4	0	0	0	0	0
Vertex 4	0	0	0	0	0	0	0	0	0
Vertex 5	0	0	0	0	0	2	0	0	3
Vertex 6	0	0	0	0	0	0	0	0	0
Vertex 7	0	0	0	0	6	0	0	0	0
Vertex 8	0	0	0	0	0	0	0	0	0
Vertex 9	0	0	0	0	0	0	0	0	0

Disconnected Graph

Simple Graph

Non - Simple Graph

Loop

Isomorphic Graphs -

Equivalent
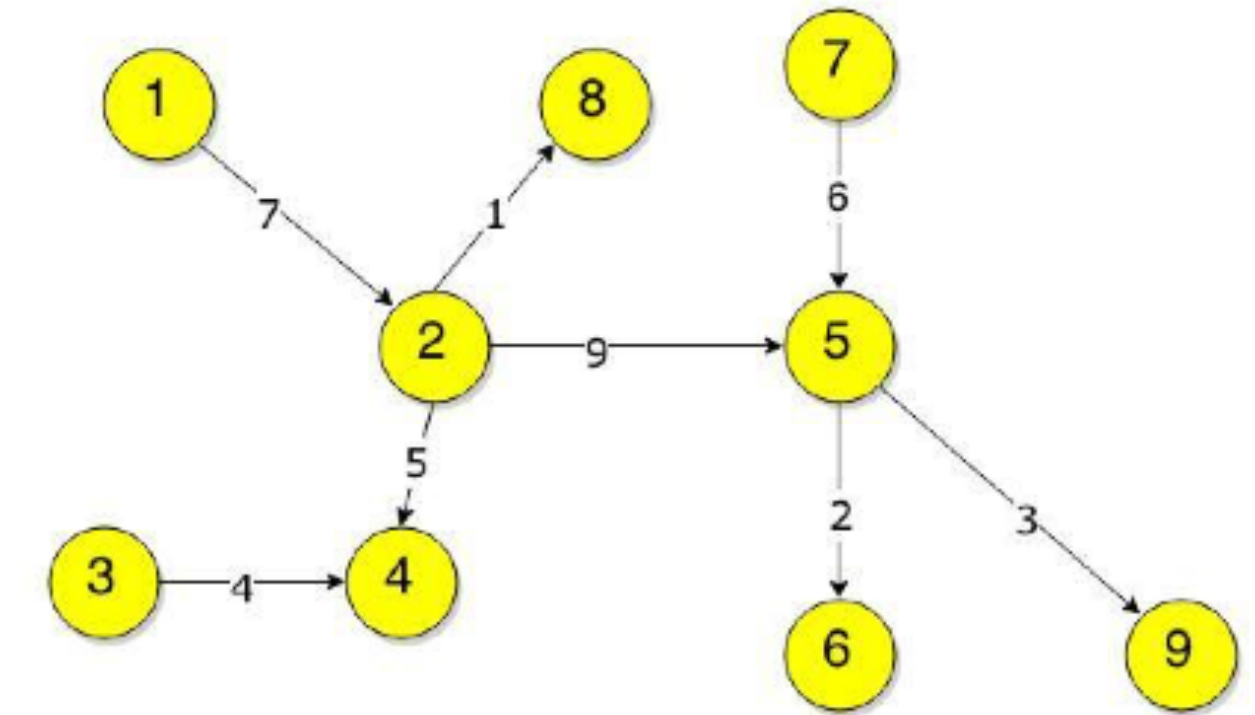
signed graphs
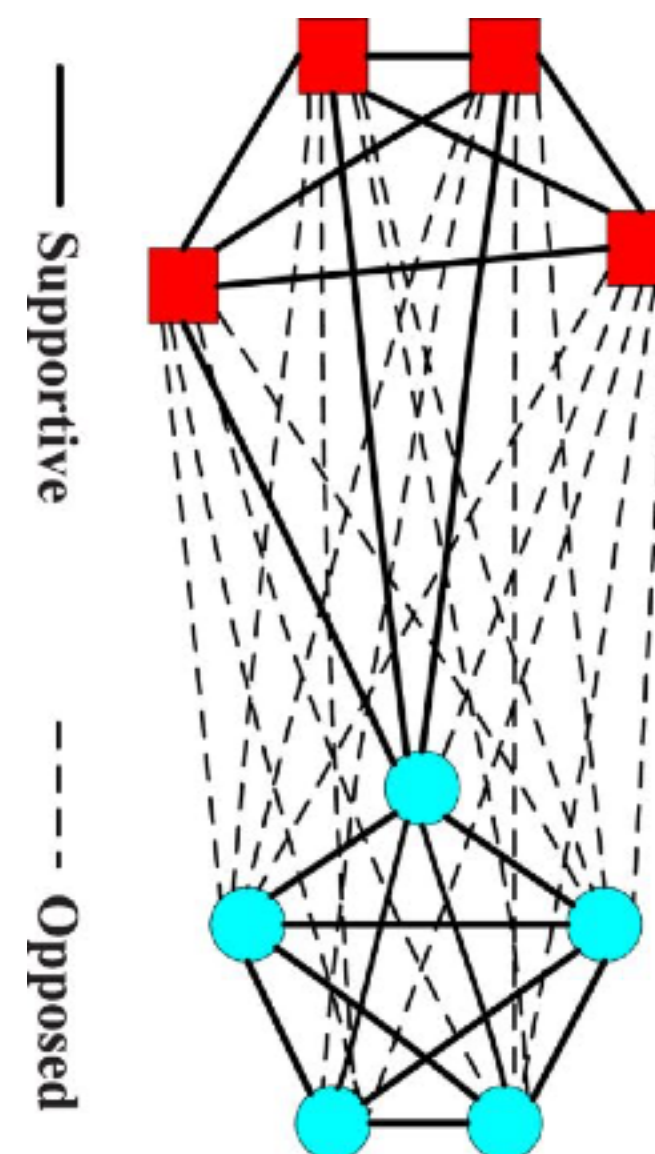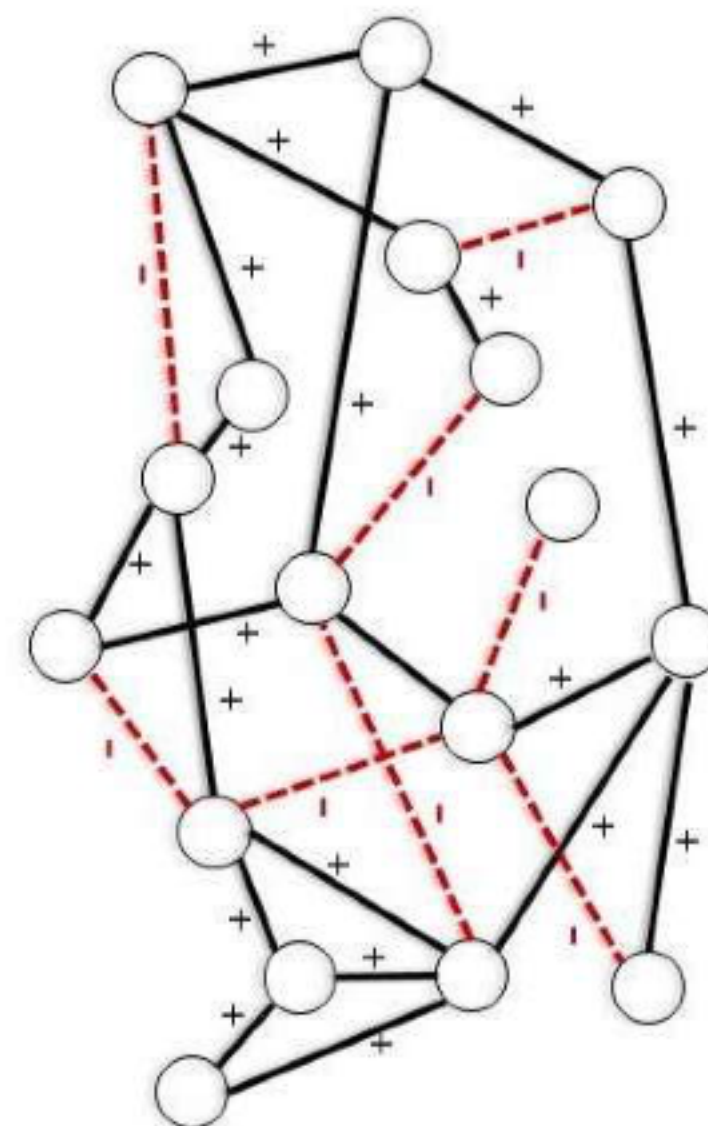
nearest neighbour ring

complete network

Supportive ——

Opposed - - - -
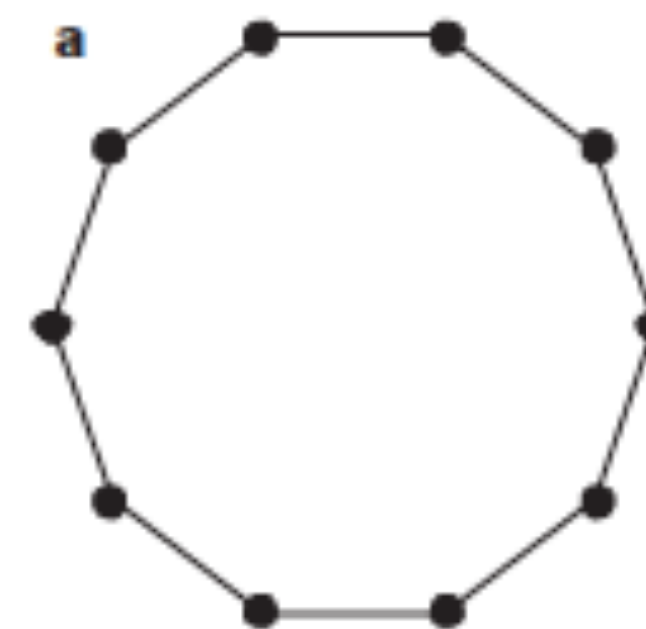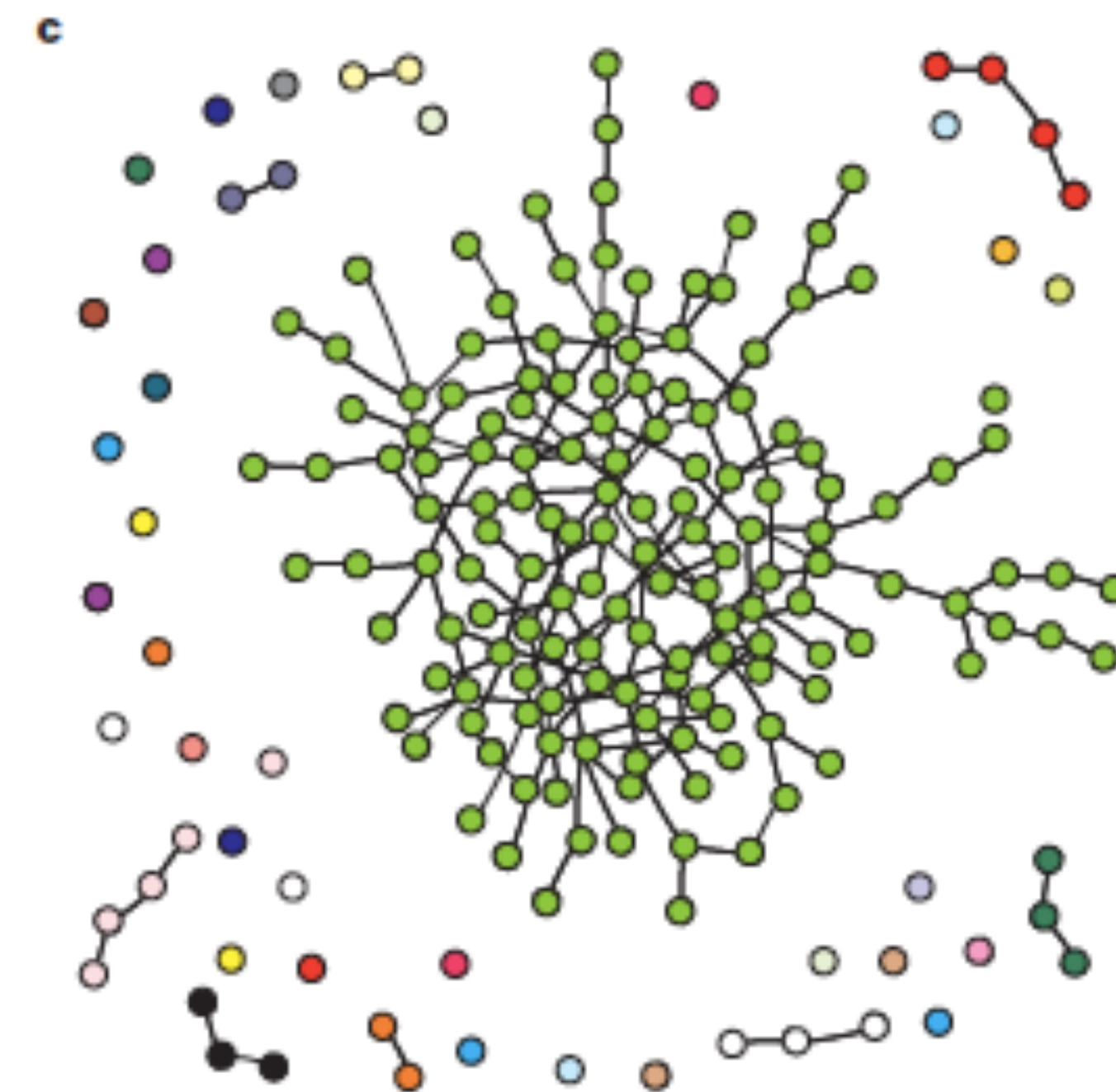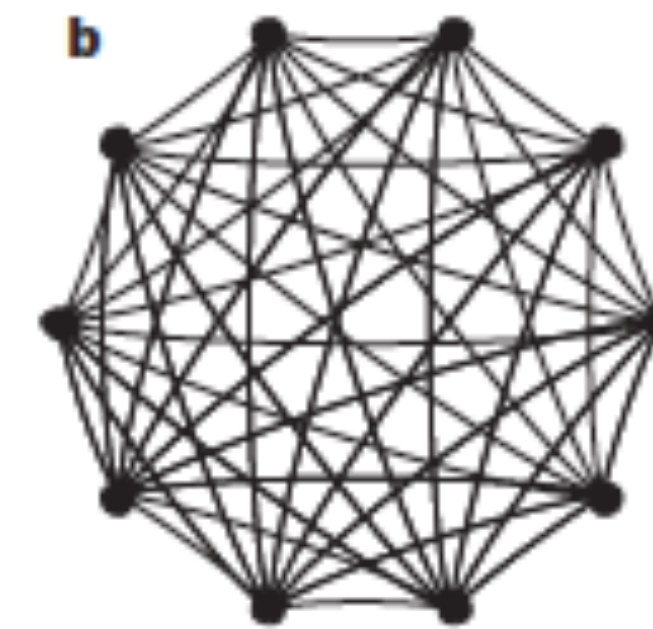
random network

(random edges)

Strogatz, S. H. (2001). Exploring complex networks. Nature, 410(6825), 268-76. doi: 10.1038/35065725.