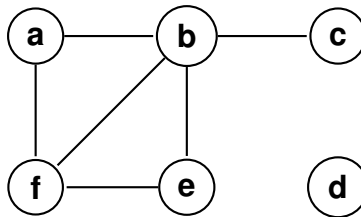## 10.2 Graph Terminology and Special Types of Graphs

10.2 pg. 665 # 1

Find the number of vertices, the number of edges, and the degree of each vertex in the given undirected graph. Identify all isolated and pendant vertices.
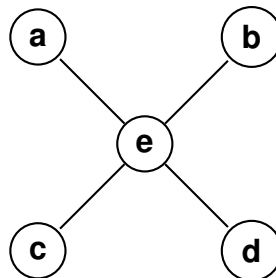

10.2 pg. 665 # 13

What does the degree of a vertex represent in an academic collaboration graph? What does the neighborhood of a vertex represent? What do isolated and pendant vertices represent?
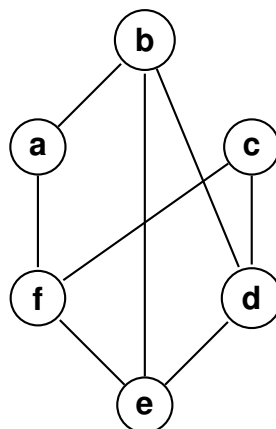
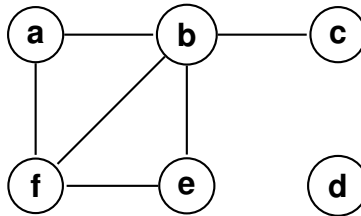### 10.2 pg. 665 # 21

Determine whether the graph is bipartite.

10.2 pg. 666 # 25

Determine whether the graph is bipartite.

10.2 pg. 666 # 33

For the following graph G find

a) a subgraph induced by the vertices a, b, c, and f.

b) the new graph G_1 obtained from G by contracting the edge connecting b and f

10.2 pg. 667 # 57

Find the union of the given pair of simple graphs.