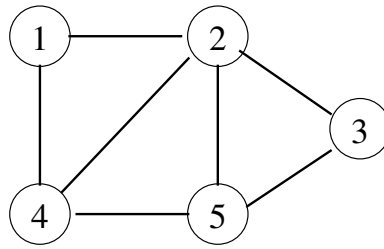# Graph Representation Worksheet

1. What are the storage requirements assuming an adjacency matrix is used. Assume each element of the adjacency matrix requires four bytes.

2. Repeat for an adjacency list representation. Assume that an **int** requires 4 bytes and that a pointer also requires 4 bytes.

3. Now, consider an undirected graph with 100 vertices and 1000 edges. What are the storage requirements for the adjacent matrix and adjacency list data structures?