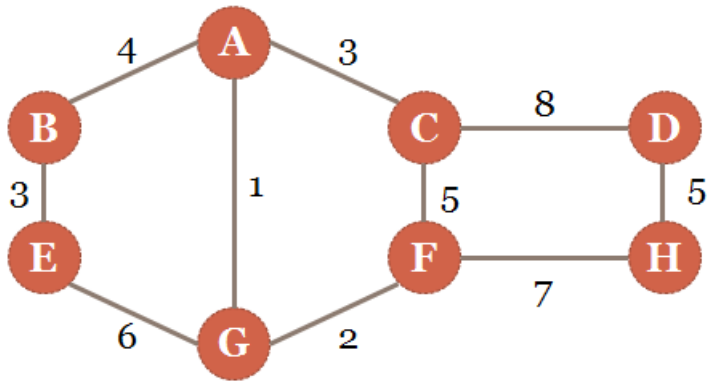


**Homework 7**  
6 Points Total

A reprieve from coding and a chance to test your mastery of the concepts presented this week.



- Give the depth-first traversal. List the stack at each step.
- Give the breadth-first traversal. List the queue at each step.
- Draw three spanning trees. List the weight of each.
- Give the adjacency matrix representation
- Give the adjacency list representation
- Find minimum spanning tree using either Prim's or Kruskal's algorithm. List which algorithm you choose. List the edge considered and set A (or the connected components) at each step. List the final set B (the set of edges). Also draw the minimum spanning tree determined as well as the weight.

1 point each.

For the sake of simplicity, assume in all cases where applicable that the start vertex is A.

Please prepare your homework submission as a MS Word (\*.doc, \*.docx, \*.rtf), text (\*.txt), or PDF file to submit via Sakai.