Bridges

- Read 4.1, pages 85-87
 - When is an edge called a **bridge**?
 - Can an edge that reaches a leaf vertex be a bridge?
 - Identify the bridges for:
 - * path graphs
 - * cycle graphs
 - * complete graphs
 - Can a disconnected graph have bridges?
 - Is this a valid restatement of an edge e being a bridge for a graph G: "the two vertices incident to the edge are on different components of the graph G e"
 - Prove theorem 4.1: An edge is a bridge if and only if it lies on no cycle of the graph.
 - Practice problems: 4.1, 4.2 (Exercise 2.9 can help here), 4.5a (induction on n)
 - True or False: If H is a spanning subgraph of G, and e is an edge in H which is a bridge in G, then it is also a bridge in H. What about the other way around?
 - True or False: A graph cannot have exactly one non-bridge edge.
 - Challenge problems: 4.5b, 4.6