1. Determine all isomorphism classes of graphs with the given property. Give one representative of each class.
   (a) All trees of order 5.
   (b) All connected planar graphs of order 5.

2. Find a formula for the number of edges of:
   (a) $K_n$
   (b) $k_{m,n}$

3. Suppose every vertex of $G$ is even. Show $G$ cannot contain a bridge.

4. Prove:
   (a) Every finite tree has a vertex of degree 1.
   (b) Every finite tree is planar. Hint: Use induction.