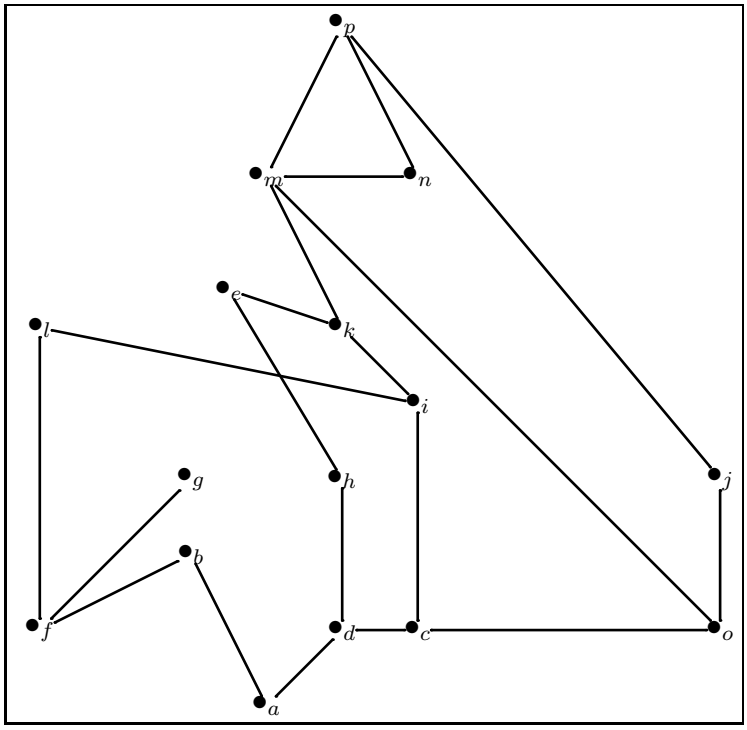
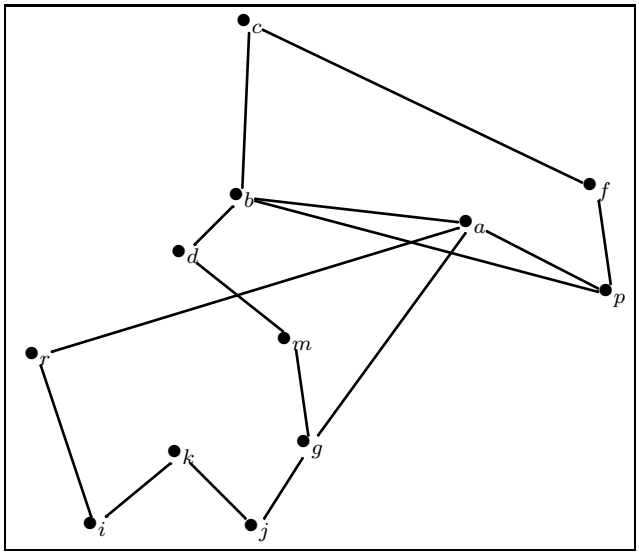
HW 8

Problem 1. Find a series of edge contractions that turn G into a graph that is isomorphic to H.

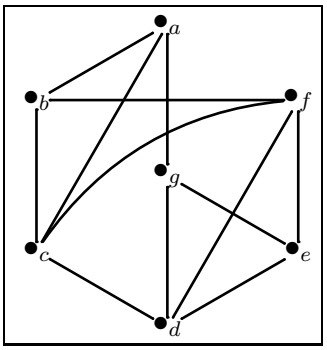
$G =$



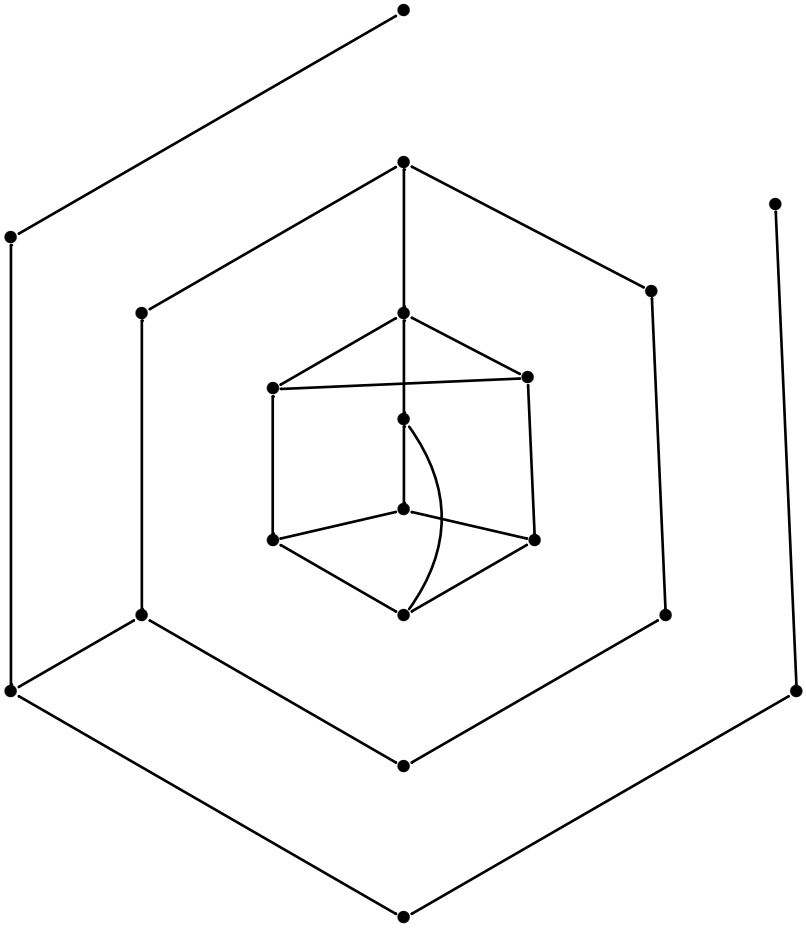
$H =$



Problem 2. Show how the following graph can be conctructed out of K_4 using the vertex splitting desribed in the last paragraph on page 46 in Diestel.

$G =$ 

Problem 3. Find the blocks and the block graph of the following graph.



Problem 4. Show that the following graph is 2-edge connected but not 2-connected. Find the minimum number of edges that can be added to

turn this in to a 2-connected graph.