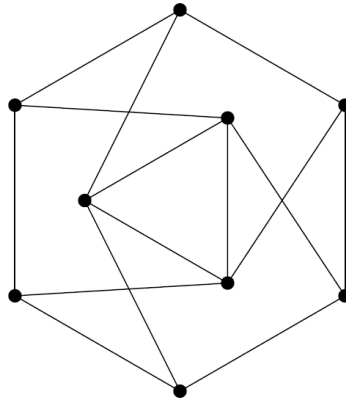




For question 4, consider the graph below with nine vertices and fifteen edges:



4. [6 pts] Is the graph planar? Why or why not? Prove your answer.

(Hint: if this graph is a subgraph of a planar graph, then this graph must also be planar.)

(Hint: if a non-planar subgraph is a subgraph of this graph, then this graph cannot be planar)

(If you are totally stuck, you may purchase another hint from the teacher at a cost of two points).