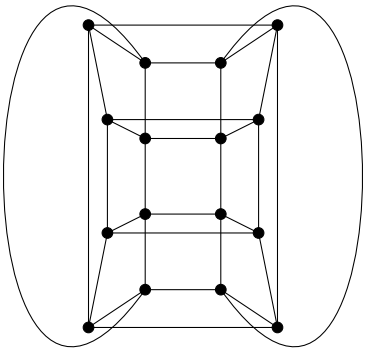
1.3.3

Let u and v be adjacent vertices in G. Prove that uv belongs to at least $d(u) + d(v) - n(G)$ triangles in G.

1.3.4

Prove that the graph below is isomorphic to Q_4.



1.3.6

Given graphs G and H, determine the number of components and maximum degree in $G+H$ in terms of the parameters for G and H.

1.3.7

Determine the maximum number of edges in a bipartite subgraph of P_n, C_n, and K_n.

1.3.26 (a)

Count the 6-cycles in Q_3.