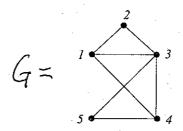
Mathematics 2602 Quiz 6 Prof. Margalit 19 October 2011

1. Consider the following graph:

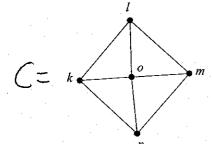


Decide whether or not each of the following three graphs is isomorphic to the above graph. If the graph is not isomorphic, give a reason, and if it is, exhibit an explicit isomorphism.

$$A = a$$

No; the degree sequence of G is (4,3,3,2,2) but the degree sequence of A is (4,4,2,2,2)

Yes; let (96): (91) = 6 (2) = 9 (3) = 6 (4) = 6 (4) = 6 (4) = 6 (4) = 6 (4) = 6 (5) = 6 (7) = 6 (7) = 6 (7) = 6 (7) = 6(7) = 6



No; G has 7 edges, but C has 8 edges. (You can also talk about their degree sequences)