

MATH 3330 — Applied Graph Theory

Assignment 2

Due Tuesday, January 23, 2007 (before class)

- (2.1.2) Find all possible isomorphism types of a connected graph with four vertices.
- (2.1.13) Find all possible isomorphism types of a simple graph with three vertices and three edges.
- (2.5.6) Determine whether the given graphs are isomorphic. If yes, give an isomorphism. If not, explain why.
- (2.5.11) Determine whether the given graphs are isomorphic. If yes, give an isomorphism. If not, explain why.
- (2.5.25) Determine whether the given digraphs are isomorphic. If yes, give an isomorphism. If not, explain why.
- (2.8.26) Find the diameter of the cartesian product $C_m \times C_n$ of two cycle graphs.