MATH 21-373 - ALGEBRAIC STRUCTURES

Homework Assignment 5

(1) 2.7.3
(2) 2.7.9
(3) 2.7.11
(4) 2.7.13
(5) 2.7.16
(6) 2.7.17
(7) 2.7.21
(8) Prove that the group of rigid symmetries of a cube is isomorphic to S_4. (Hint: A rigid symmetry of the cube gives a permutation of the 4 pairs of antipodal vertices.)