

Math 502: Combinatorics

Homework 8

Recall that you must hand in a subset of the problems for which deleting any problem makes the total score less than 10. The maximum possible score on this homework is 10 points. See the syllabus for scoring details.

Problems

1. (1) [1 point] Suppose G acts on X . Prove that the stabilizer of a point $x \in X$ is a subgroup of G .
2. (1+) [2 points] Sagan chapter 6 problem 8(a)
3. (2-) [3 points] Sagan chapter 6 problem 8(b)
4. (1+) [2 points] Sagan chapter 6 problem 9(a)
5. (1+) [2 points] Sagan chapter 6 problem 9(b)
6. (2-) [3 points] Sagan chapter 6 problem 10
7. (2+) [4 points] Sagan chapter 6 problem 31