

MATH 302 Discrete Mathematics
Assignment 10. Due on Wednesday, November 25, 2009

Read: Sections 5.4, 5.5, 8.1. **Self-study:** Pages 247–249 in Section 3.8.

Definition: Write down the definitions for the following terms on relations (Chapter 8). [5 points]

binary relation

reflexive

symmetric

antisymmetric

transitive

Problems to be graded: [10 points]

§5.4/12, 20, 21.

§5.5/6, 16(abc), 45, 54, 55

§8.1/ 45, 50.

Other problems:

§5.4/ 15, 17, 22, 25, 31, 33.

§5.5/1, 2, 3, 4, 5, 7, 9, 14, 15(abc), 17, 18, 20, 27, 31, 35, 40.

§8.1/ 6, 8, 24, 25, 27, 28, 38, 40, 41, 42.