

MATH 114

Homework due Monday, November 29

7.5: 2, 4, 10, 12, 20(c), 26

Let $|A| = n$. How many

- (a) symmetric
 - (b) both symmetric and antisymmetric
 - (c) reflexive, symmetric, and antisymmetric
- relations are there on A ?

8.1: 4, 8, 14

The following problems are optional:

7.5: 54

Let $|A| = n$.

1. How many antisymmetric relations are there on A ?
2. (I think this problem is very hard) How many transitive relations are there on A ?