Math 234 Preview Exercises

Section 8.3

Read Section 8.3 in the textbook and answer the following questions. *Hand in this worksheet at the next class.*

1. Given a partition of a set, what is the relation induced by the partition?

2. What is the definition of an **equivalence relation**?

3. What does it mean if $m \equiv n \pmod{d}$?

4. Given an equivalence relation, what is an **equivalence class**? How is the equivalence class of ane lement a denoted?

5. What are the distinct equivalence classes for the relation of congruence modulo 3 on the set \mathbf{Z} ?

6. What is the meaning of a **representative** of an equivalence class?