

Equivalence Relations

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Introduction

- Certain combinations of relation properties are very useful
 - We won't have a chance to see many applications in this course
- In this set we will study equivalence relations
 - A relation that is reflexive, symmetric and transitive
- Next slide set we will study partial orderings
 - A relation that is reflexive, antisymmetric, and transitive
- The difference is whether the relation is symmetric or antisymmetric

Outline

- What is an equivalence relation
- Equivalence relation examples
- Related items
 - Equivalence class
 - Partitions