

Phase 10 a : Relation Operators

Example 1 : Relation Type

$R \ S$

Example 2 : Maplet Constructor

$x \mapsto y$

$1 \mapsto 2$

Example 3 : Domain Restriction

$S \ R$

Example 4 : Range Restriction

$R \ T$

Example 5 : Relational Composition

$R \ S$

$R \ S$

Example 6 : Relation Functions

$\text{dom } R$

$\text{ran } R$

Example 7 : Complex Expressions

$\text{dom}(S \ R)$

$\text{ran}(R \ T)$

$A \ R \ R \ B$

Example 8 : Chained Relations

$R \ S \ T$

$A \ R \ B$

Example 9 : Relations with Set Operations

$(x \mapsto y) \in R$

$\text{dom } R \subseteq S$

$\text{ran } R \cup \text{ran } S$