

Reflexive

Total

Symmetric

Transitive

\top

xRx

\top

$xRy \vee yRx$

xRy

yRx

$xRy \quad xRy$

xRz

[bp]

Irreflexive

Asymmetric

Antisymmetric

xRx

\perp

$xRy \quad yRx$

\perp

$xRy \quad yRx$

$x = y$