

Reflexive

Total

Symmetric

Transitive

$\top$

$\top$

$xRy$

$xRy \quad xRy$

---



---



---



---

$xRx$

$xRy \vee yRx$

$yRx$

$xRz$

[bp]

Irreflexive

Asymmetric

Antisymmetric

$xRx$

$xRy \quad yRx$

$xRy \quad yRx$

---



---



---

$\perp$

$\perp$

$x = y$