

Definition (Properties of endorelations)

An endorelation $R : \mathbf{A} \rightarrow \mathbf{A}$ is:

▷ *Symmetric* if

$$\frac{x R y}{y R x};$$

▷ *Reflexive* if

$$\frac{\top}{x R x};$$

▷ *Transitive* if

$$\frac{x R y \quad y R z}{x R z}.$$