

order_functionality_wrt_iff^{13,42}

$\forall T:\text{Type}, R, R':(T \rightarrow T \rightarrow \mathbb{P})$.

$$(\forall x, y:T. R(x,y) \iff R'(x,y)) \Rightarrow (\text{Order}(T;x,y.R(x,y)) \iff \text{Order}(T;x,y.R'(x,y)))$$