

$$(\mathbf{d}; \mathbf{e}) : \mathbf{P}^{\text{op}} \times \mathbf{R} \xrightarrow{\text{Pos}} \mathbf{Bool},$$

$$\langle p^*, r \rangle \mapsto \bigvee_{q \in Q} \mathbf{d}(p^*, q) \wedge \mathbf{e}(q^*, r).$$