

$$\begin{aligned} \text{FixFunMinRes}(\mathbf{f} \circ_{\mathbf{DP}} \mathbf{g})^{\star}(x) &= \{y \in Y \mid (\mathbf{f} \circ_{\mathbf{DP}} \mathbf{g})(x^*, z)\} \\ &= \{y \in Y \mid \bigvee_{y \in Y} \mathbf{f}(x^*, y) \wedge \mathbf{g}(y^*, z)\}. \end{aligned}$$