

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