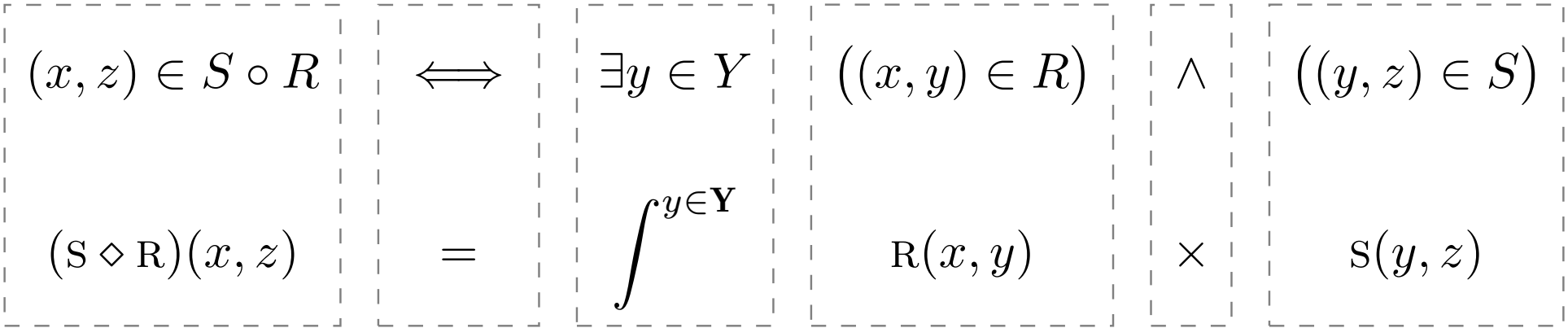
$(x, z) \in S \circ R$
$\iff$
$\exists y \in Y$
$\big((x, y) \in R\big)$
$\wedge$
$\big((y, z) \in S\big)$
$(\mathrm{S} \diamond \mathrm{R})(x, z)$
$=$
$\int^{y \in \mathbf{Y}}$
$\mathrm{R}(x, y)$
$\times$
$\mathrm{S}(y, z)$