

# Proof

July 2020

$$\begin{aligned} & (\lambda xyz.xz(yz))(\lambda xy.x)(\lambda xy.x) =_{\beta} (\lambda yz.(\lambda xy.x)z(yz))(\lambda xy.x) =_{\beta} \\ & (\lambda yz.(\lambda y.z)(yz))(\lambda xy.x) =_{\beta} (\lambda yz.z)(\lambda xy.x) =_{\beta} (\lambda z.z) \end{aligned}$$