

$$\begin{aligned}
 \textcircled{2} \quad \beta [\neg (x=1)]_s &= \beta [(x=1)]_s \\
 &= A[x]_s = A[1]_s \\
 &= (sx) = N[1] \\
 &= 3 = 1 \\
 &= FF \\
 &= \beta [\neg (FF)] = TT
 \end{aligned}$$