$\top \equiv \lambda xy.\, x$
$\bot \equiv \lambda xy.\, y$

$NOT\, b \;\equiv\; \lambda b.\, ((\lambda cab)\, (b \bot \top)) \equiv \lambda b.\, b \bot \top \equiv \lambda b.\, b\, (\lambda xy.\, y)\, (\lambda xy.\, x) \;\equiv\; \lambda b.\, b\, (\lambda y.\, y)$
Alors :
$NOT \top \equiv \top\, (\lambda y.\, y) \equiv (\lambda xy.\, x)\, (\lambda y.\, y) \equiv (\lambda zy.y) \equiv \bot$
Mais :
$NOT \bot \equiv \bot\, (\lambda y.\, y) \equiv (\lambda xy.\, y)\, (\lambda y.\, y) \equiv (\lambda y.y) \not\equiv \bot$