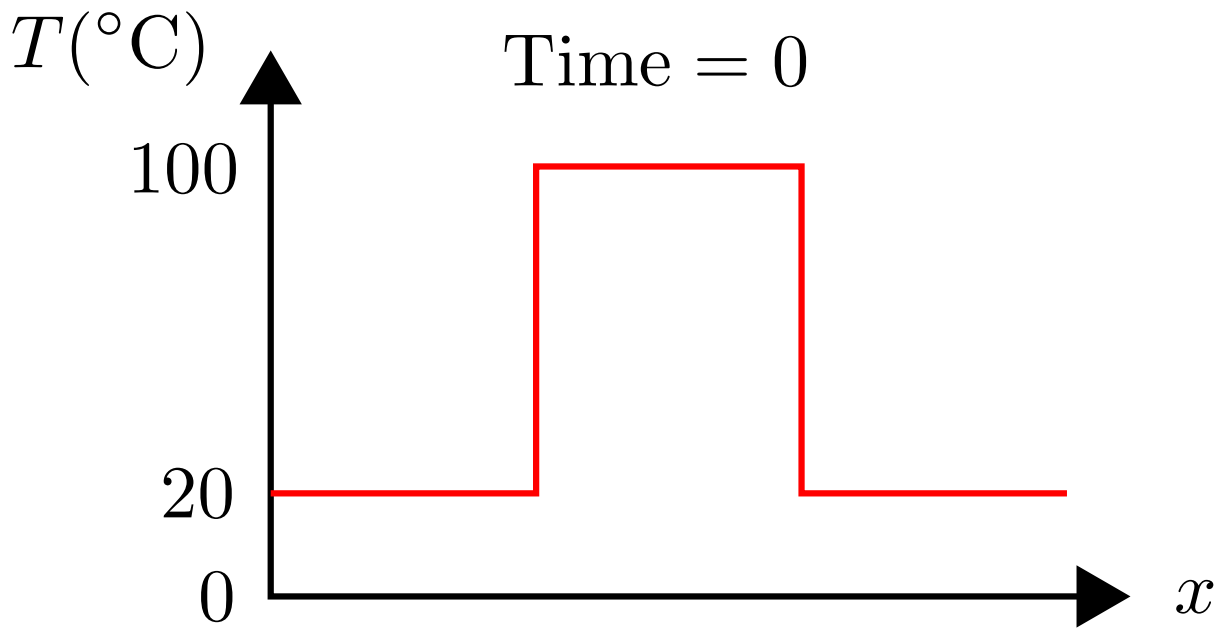
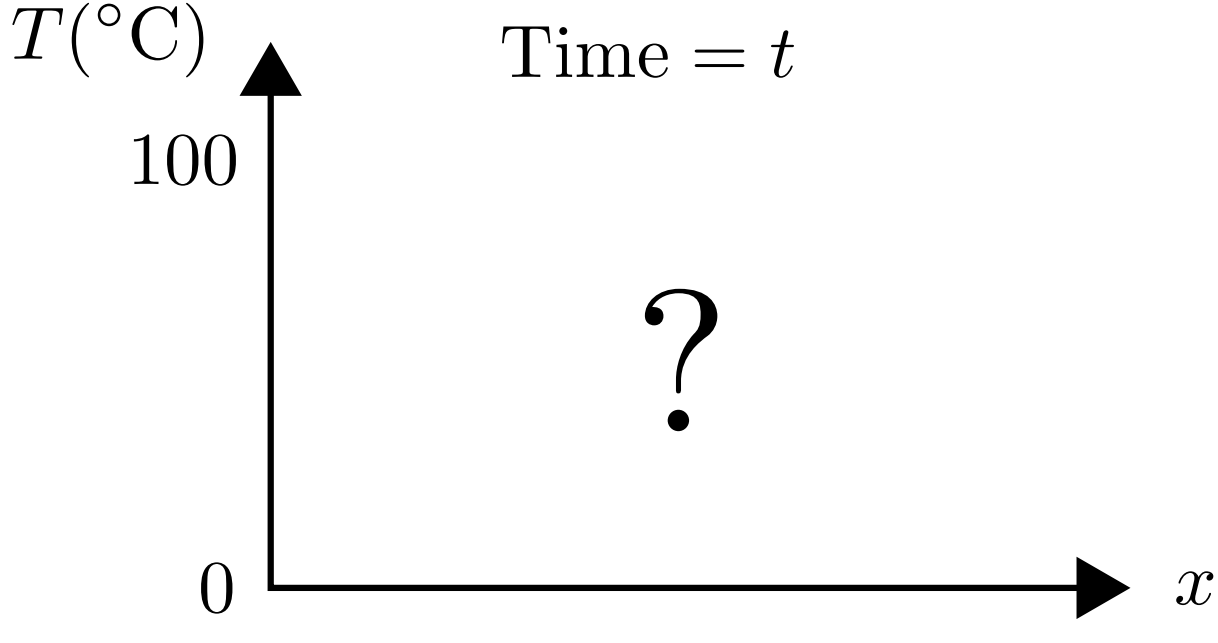
We know the initial temperature distribution $T(x, t = 0)$




What is the temperature distribution at a later time $T(x, t)$?