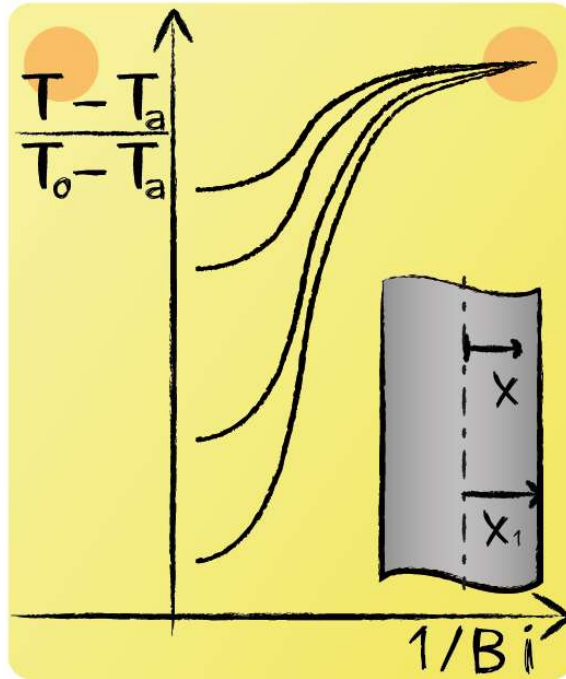# Lecture 17- Question 4



Remember the Heisler diagram for a plate as sketched in the figure. A flat plate surrounded by a fluid, with the known parameters $\lambda$, $a$, $\alpha$, $T_a$ and $x_1$, has at time instant $t_0$ temperature $T_0$. After some time the temperature at the center has cooled down to $T_1$ at time instant $t_1$. Which of the following parameters can **only** be determined with use of the Heisler diagram?

The surface temperature $T(x = x1, t)$ at time instant $t_1$. The other parameters are given or can be calculated by their known formulas.