The Meaning of $k$

**Quiz:** The meaning of $k$.

In the root beer cooling example the DE was:

$$\dot{x}(t) = k(T_{\text{ext}}(t) - x(t)).$$

What does it mean for $k$ to be large?

**Choices:**
1. good insulation
2. bad insulation
3. nothing to do with insulation

Pick what you think is the correct choice and then look at the answer.