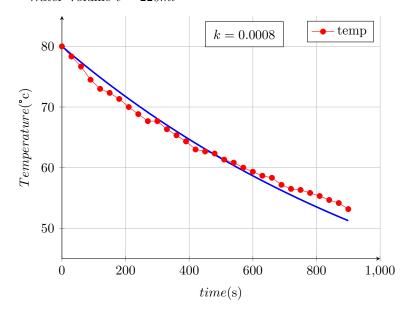
Without adding cold water

$$T(t) = S + (T_0 - S) e^{-kt}$$

- Initial Water Temperature $T_i = 80^{\circ}\mathrm{C}$
- constant k = 0.0008
- Water Volume v=220ml



$$T(t) = 24 + (80 - 24) e^{-0.0008t}, \quad R^2 = 0.99$$