

化數小考一 (2019/10/09)

1. For the reaction $A \xrightarrow{k_1} B \xrightarrow{k_2} C$, please derive the concentrations [A], [B], and [C], as a function of time, $[A]_{t=0} = A_0$, $[B]_{t=0} = [C]_{t=0} = 0.0$. If $A_0 = 1.0 \text{ M}$, $k_1 = 2 \text{ s}^{-1}$, $k_2 = 1 \text{ s}^{-1}$, plot the concentrations as a function of time.