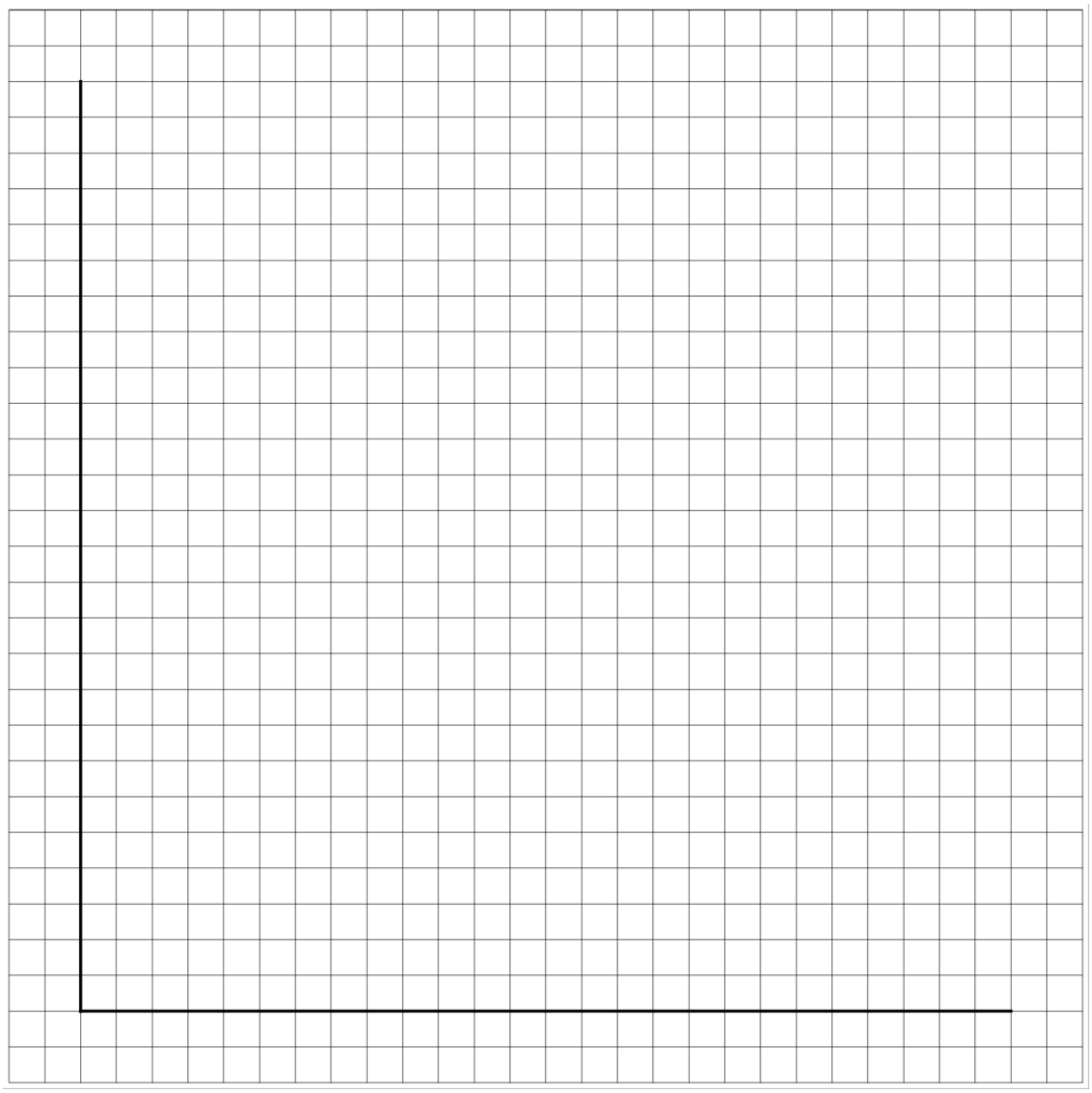
Arrhenius Equation Data Sets (Rate Constant as a function of Temperature)

- Determine the activation energy for the rearrangement of methylisonitrile, $CH_3NC \rightarrow CH_3CN$ from the following determinations of k at various temperatures:

Temperature, °C	k, s^{-1}	T, K	1/T, K^{-1}	ln$k$
189.7	2.52×10^{-5}			
198.9	5.25×10^{-5}			
230.3	6.30×10^{-4}			
251.2	3.16×10^{-3}			



- For the same reaction, what is the value of k when the temperature is 430.0 K?