**Process Data Analysis**

1. For a first order reaction need to plot ln[A] versus t (straight line with gradient = k) and for second order 1/[A] versus t.

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**Unit conversions**

1. Convert the following spectroscopic quantities as indicated.
2. 0.15 nm to Hz
3. 2000 cm-1 to µm
4. 9 GHz to cm-1
5. 500 nm to cm-1