

Worksheet: Zeroth-Order Rate Plots



Q1: During a reaction, the rate of reaction R and the concentration of a reactant A are measured as functions of the reaction time, t . All other reactants are in large excess. Which of the following graphs would **not** produce a straight line if the reaction is of the zeroth order with respect to A ?

A $\frac{1}{R}$ against t

A against $\ln t$

B $\frac{1}{R}$ against $\ln t$

C R against $\frac{[A]}{t}$

D $\frac{1}{[A]}$ against $\frac{1}{t}$