Integrated rate laws  
rate = k 0 order 
$$[A]_t = -kt + [A]_0$$
  
rate = k[A] 1st order  $\ln [A]_t = -kt + \ln [A]_0$   
rate = k[A]<sup>2</sup> 2nd order  $\frac{1}{[A]_t} = -kt + \frac{1}{[A]_0}$   
 $y = \underline{1}$   $x = t$   $y = mx + b$   
 $[A]_t$   $m = k$   
plot of 1/[A]<sub>t</sub> v.s. t is linear  $b = \underline{1}$   
 $[A]_0$ 

A