

Integrated rate laws

differential rate laws are differential equations

$$\text{rate} = \int_{t=0}^{t=t} k = \int -d[A]/dt$$

$$\text{rate} = \int_{t=0}^{t=t} k[A] = \int -d[A]/dt$$

$$\text{rate} = \int k[A]^2 = \int -d[A]/dt$$

differential rate eqn

integrated rate eqn

$$\text{rate} = k$$

$$[A]_t = -kt + [A]_0$$