

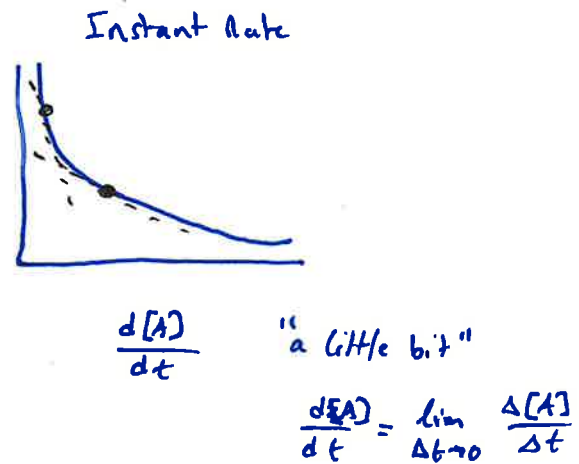
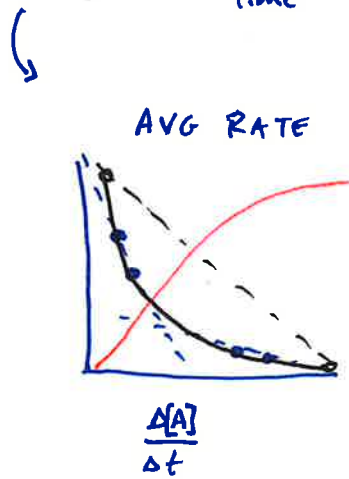
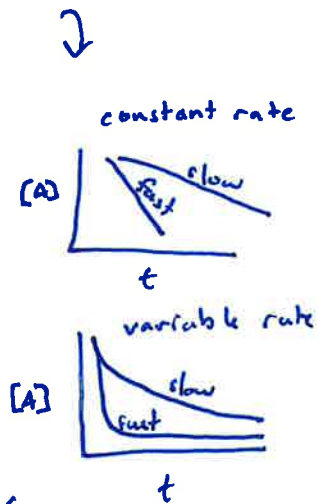
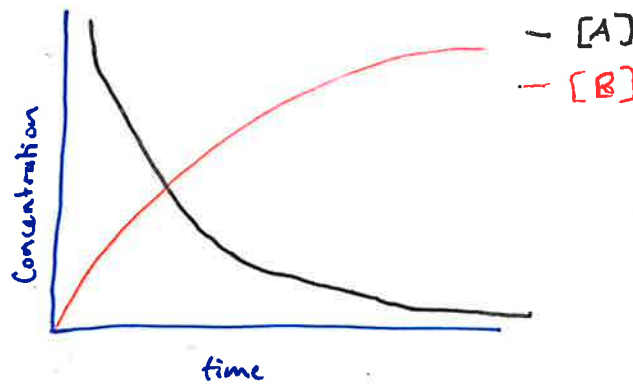


rate of rxn = $-\frac{\Delta A}{\Delta t}$ = $\frac{\Delta B}{\Delta t}$

rate of disappearance of A (-) rate of appearance of B (+)



rate = $-\frac{\Delta[A]}{\Delta t} = \frac{\Delta[B]}{\Delta t}$



rate of rxn = $-\frac{\Delta[A]}{\Delta t} = \frac{1}{2} \frac{\Delta[B]}{\Delta t}$

"[B] appears twice as fast as [A] disappears"

"[A] disappears at ~~twice~~ half as fast as [B] appears"

2 ("Rate of disappearance of [A]")

"rate of appearance of B"

$\therefore -2 \frac{\Delta[A]}{\Delta t} = \frac{\Delta[B]}{\Delta t}$