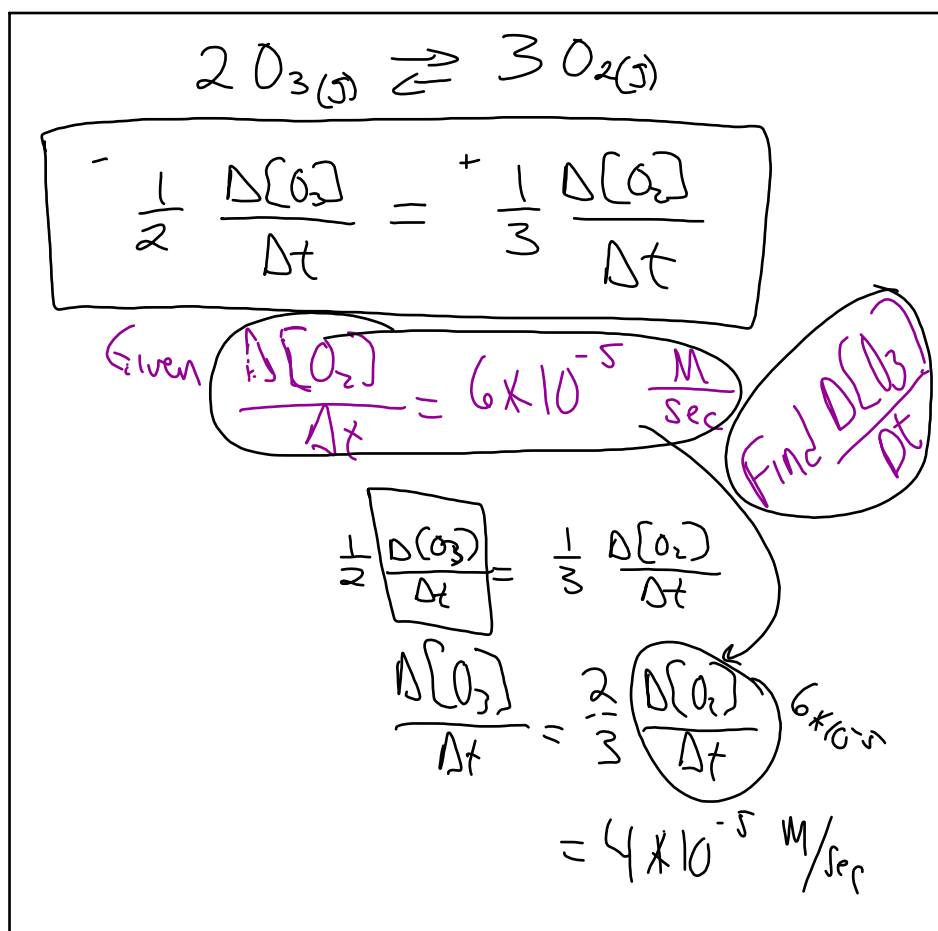


Feb 1-7:35 AM



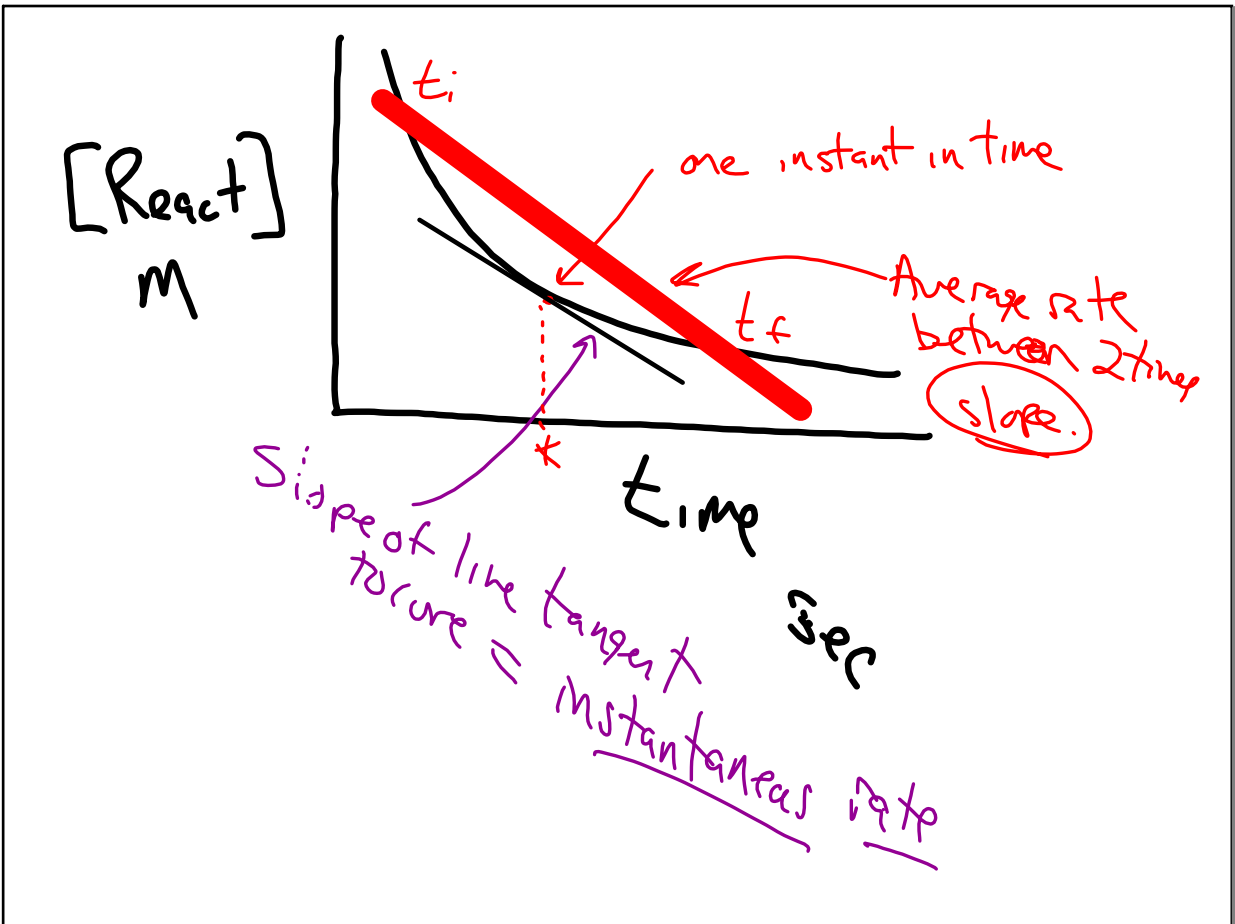
Feb 1-7:51 AM

Is Rate of a reaction constant?  
 ↳ speed (velocity) at which the rxn occurs.

Is it → a machine → on  
 ↳ human → get tired, ↓ energy  
 ↳ ↓ fuel / Materials

Rxn ⇒ need collisions  
 ↳ need cars.

Feb 1-7:58 AM



Feb 1-8:19 AM

$A + B \rightarrow C$

Rate Law

$Rate = k [A]^n [B]^m$

← Rate Law Constant
← Reactants

$n, m$   
reaction orders  
Use data table to figure out.

Feb 1-8:23 AM

Look at  $\Delta[A]$        $B$  must be constant.

	$\Delta[A]$	$\Delta rate$
If	$2 \cdot 1$	$2$
	$2 \cdot 3$	$8$

Feb 1-8:41 AM

$$[A] \quad \text{rate}$$
$$2^x = 3$$
$$\ln 2^x = \ln 3$$
$$x \cdot \ln 2 = \ln 3$$
$$x = \frac{\ln 3}{\ln 2}$$

Feb 1-8:42 AM

LOG Rules

$$\log A^B = B \log A$$
$$\log AB = \log A + \log B$$
$$\log \frac{A}{B} = \log A - \log B$$

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