Rate of disappearance = rate of appearance

Reactants Products

Balance eqn.

$1\ A \rightarrow 1\ B$

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

$(\rightarrow 3D)$

$$-\frac{\Delta[C]}{\Delta t} \times \frac{1}{3} = \frac{\Delta[D]}{\Delta t}$$

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General formula

$$a\,A + b\,B \rightarrow c\,C + d\,D$$

$$-\frac{1}{a}\frac{\Delta[A]}{\Delta t} = -\frac{1}{b}\frac{\Delta[B]}{\Delta t} = +\frac{1}{c}\frac{\Delta[C]}{\Delta t} = +\frac{1}{d}\frac{\Delta[D]}{\Delta t}$$

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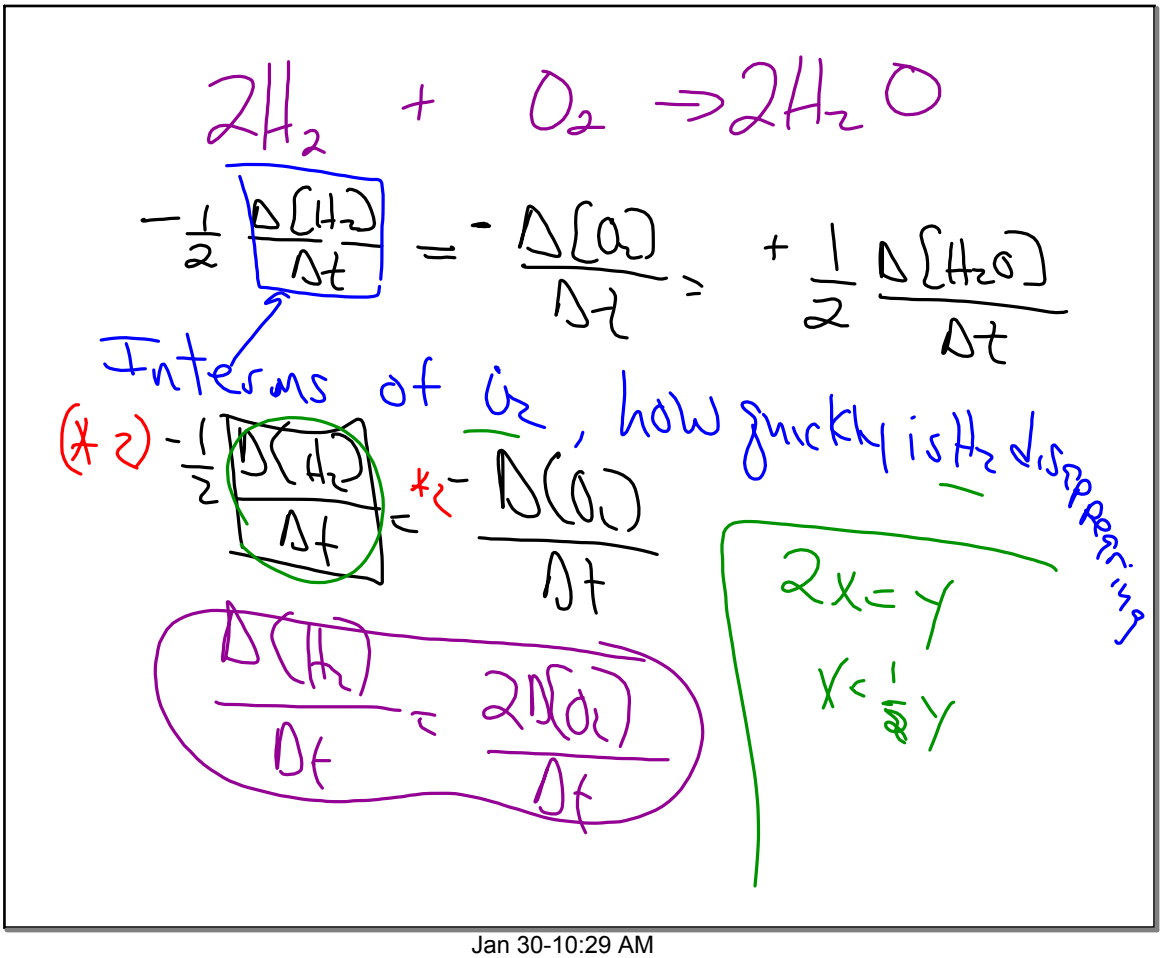

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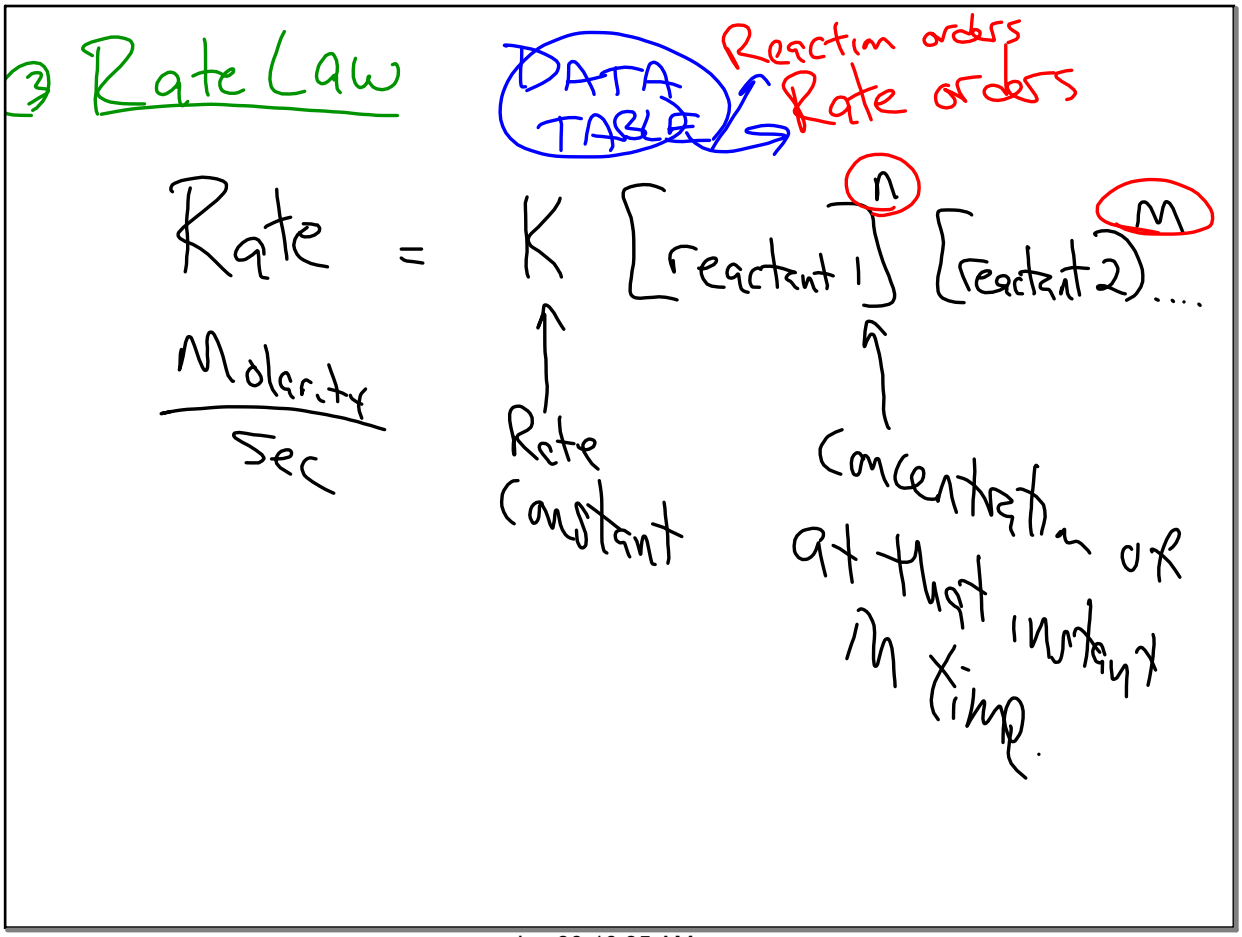

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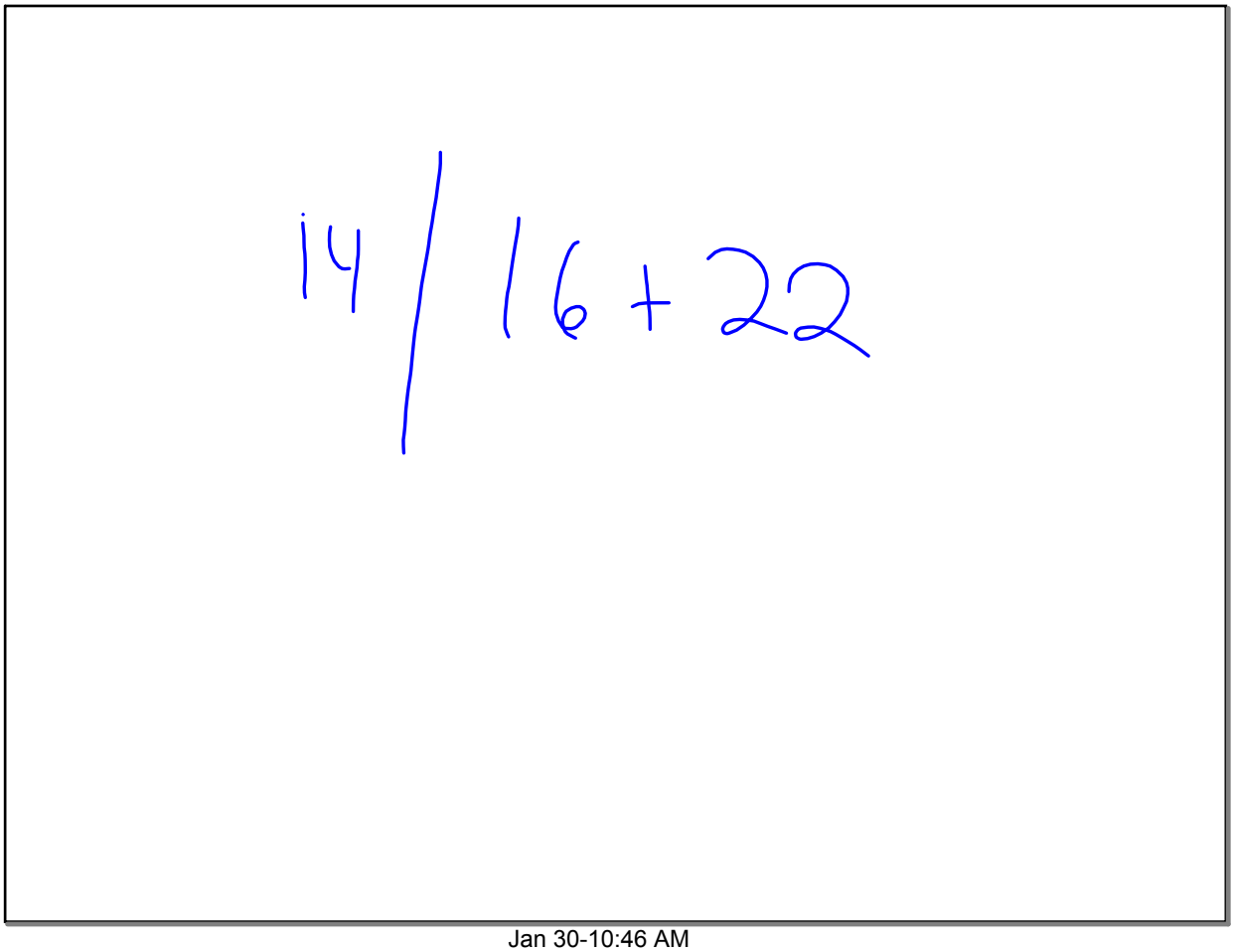

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