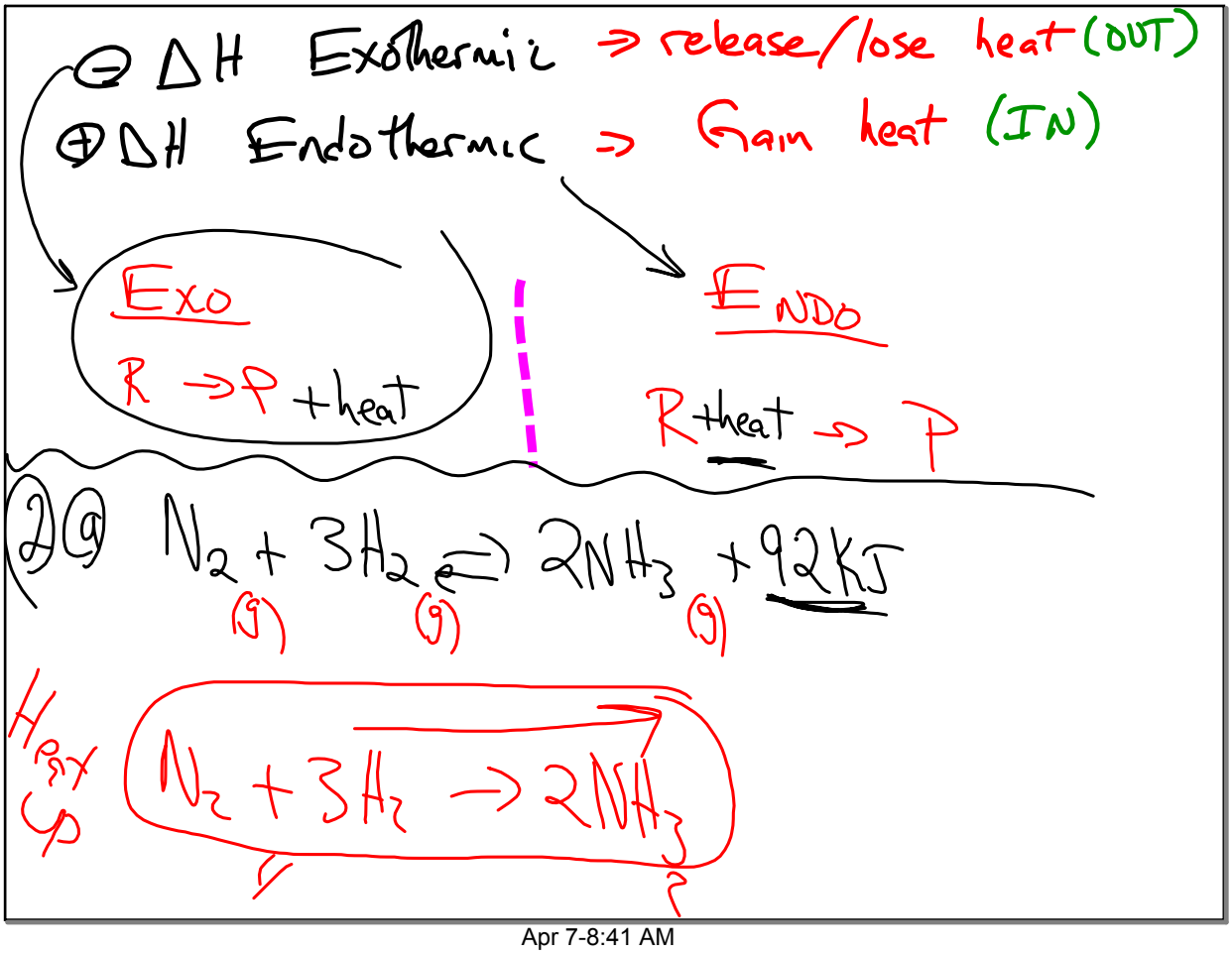
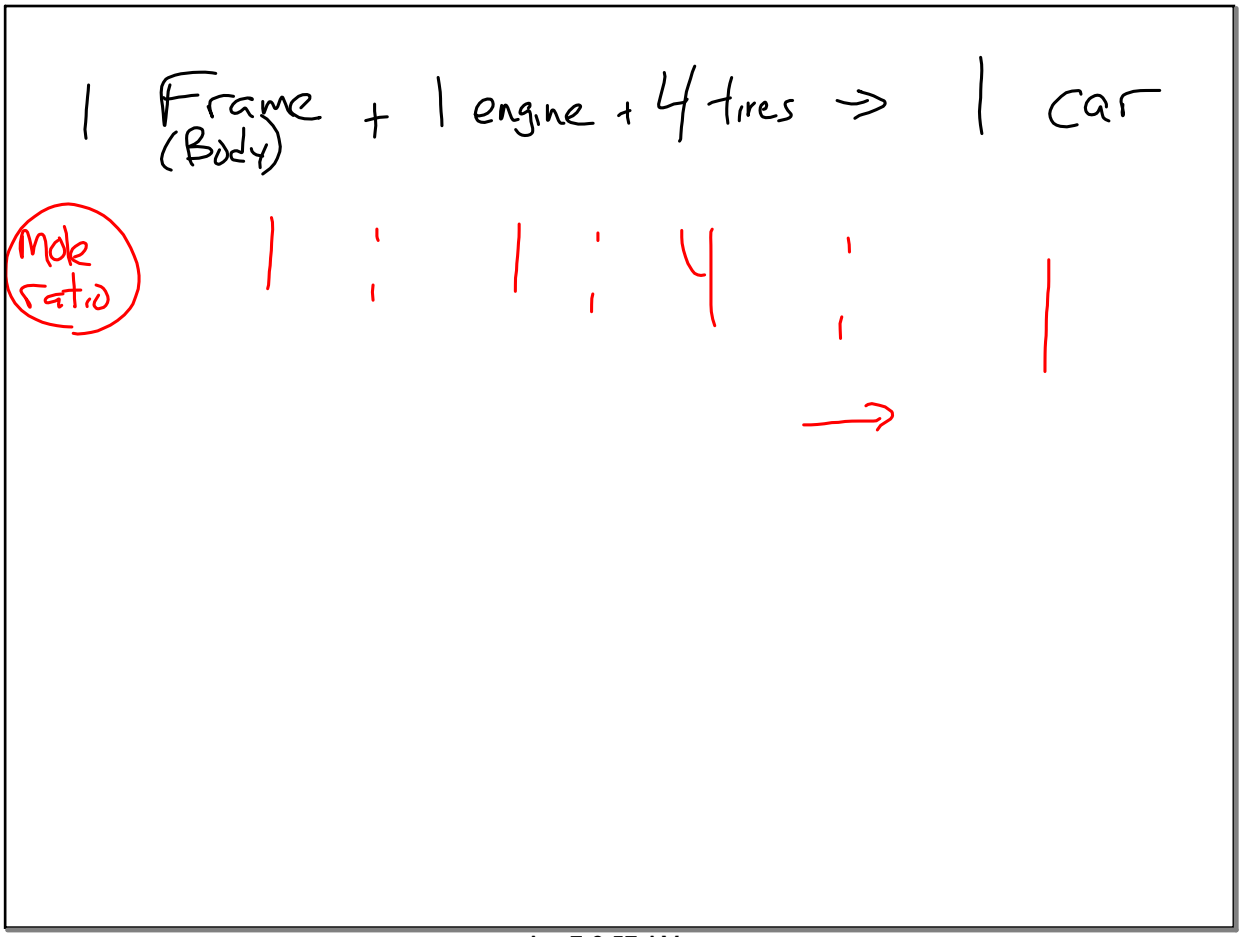
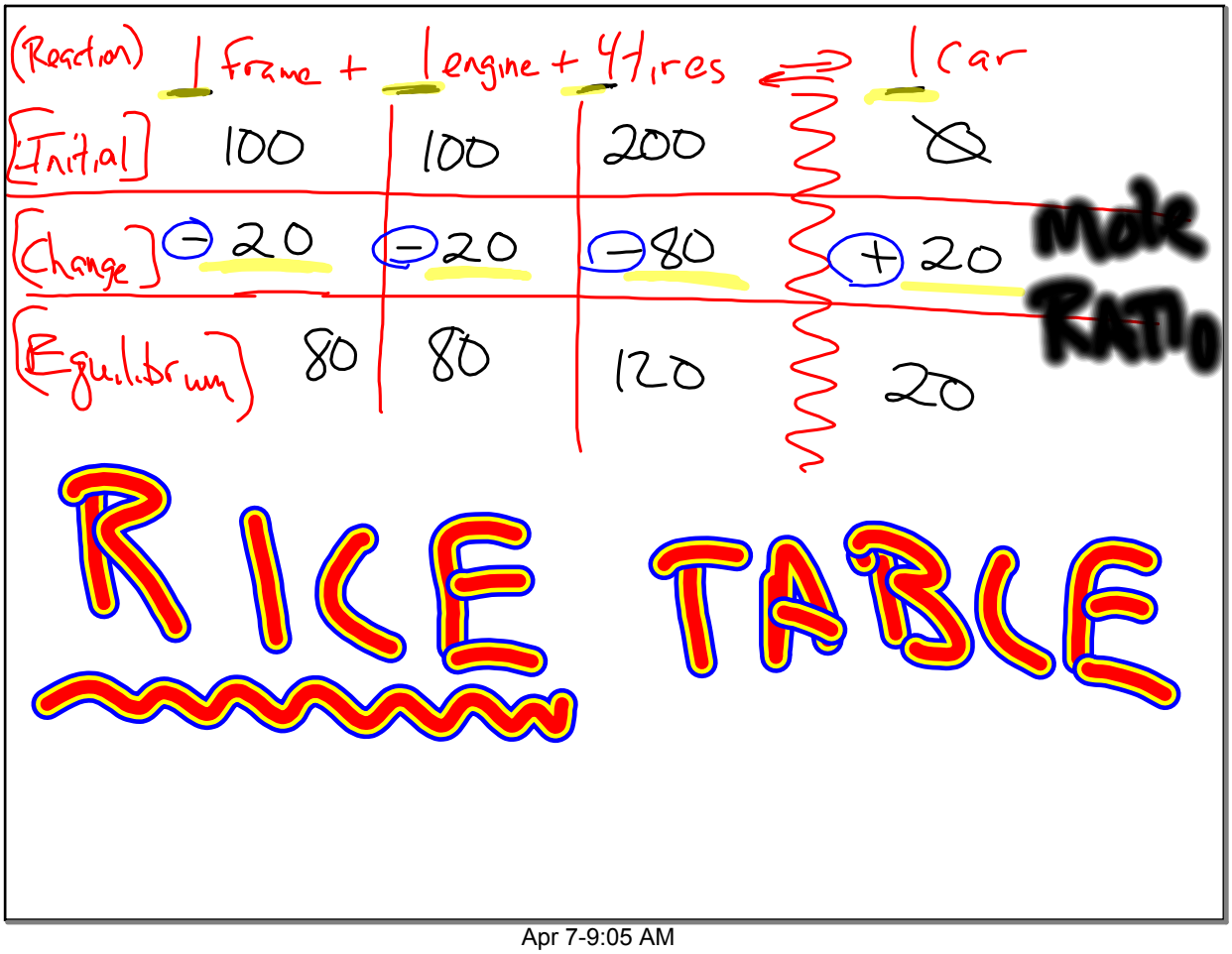


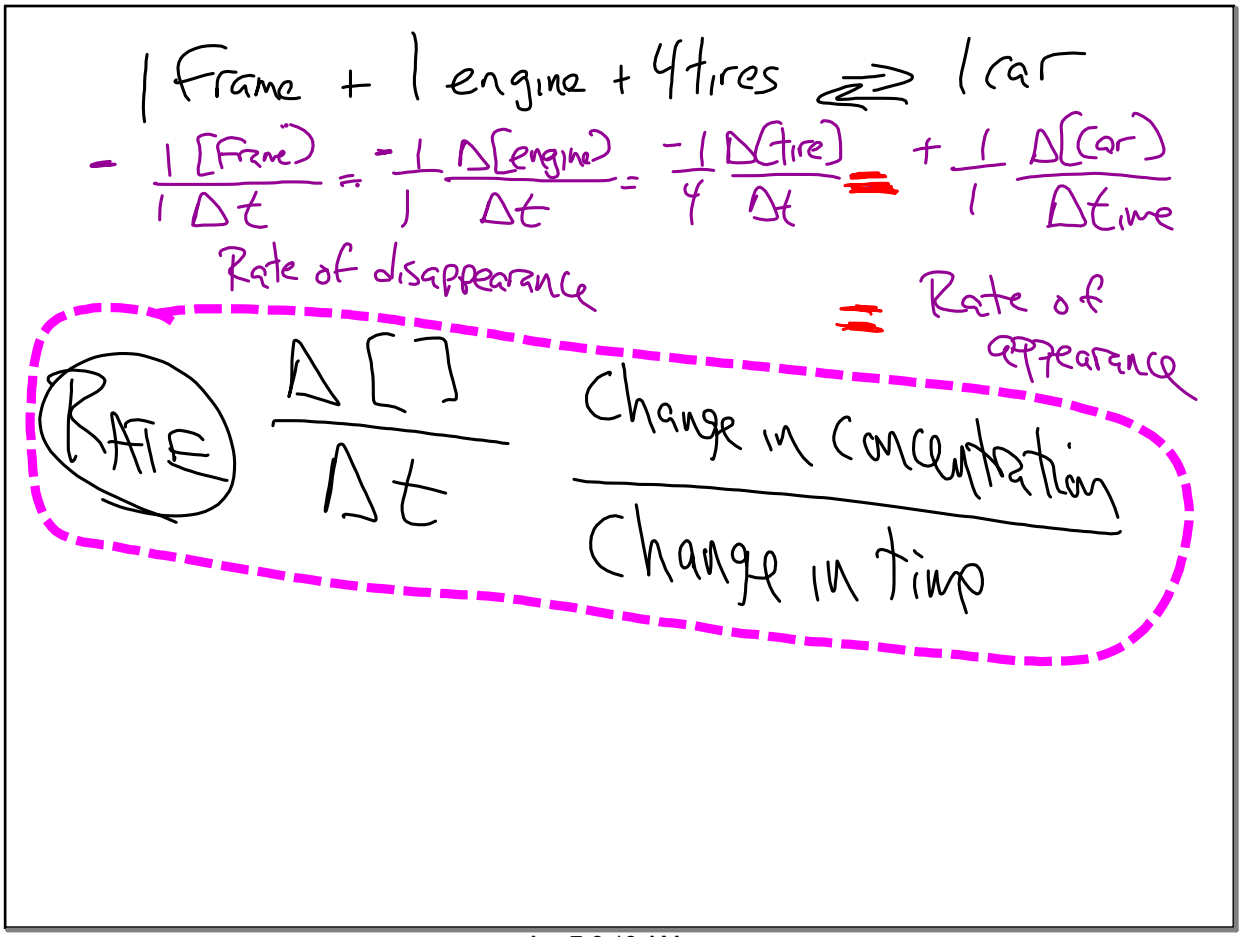
Apr 7-8:41 AM



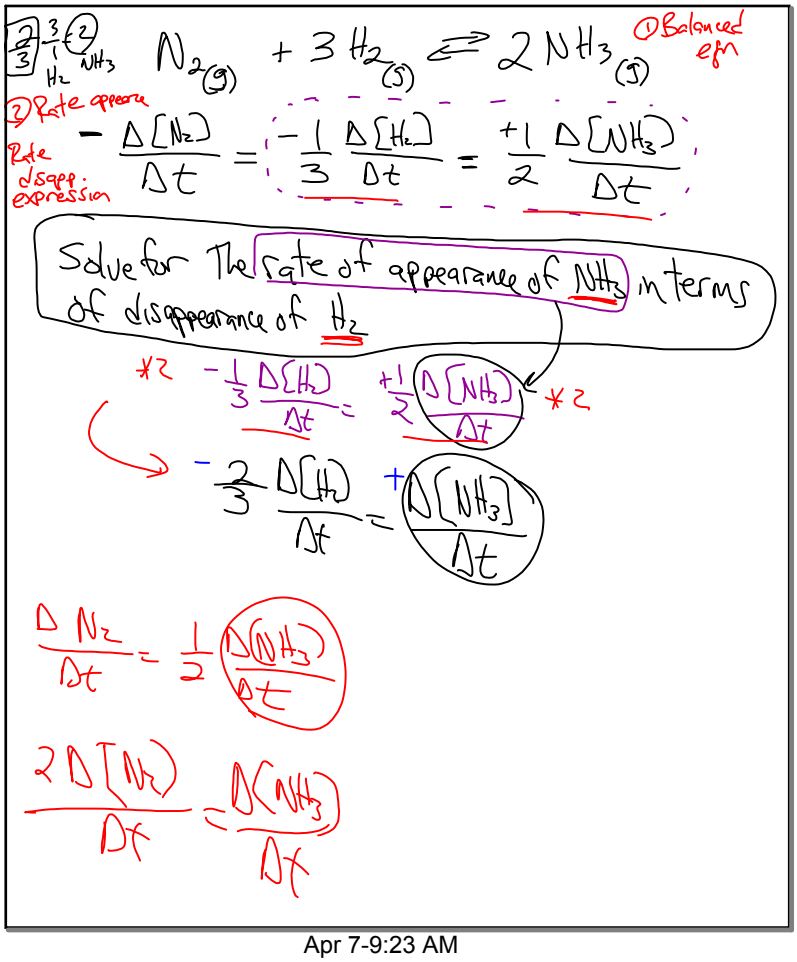
Apr 7-8:57 AM



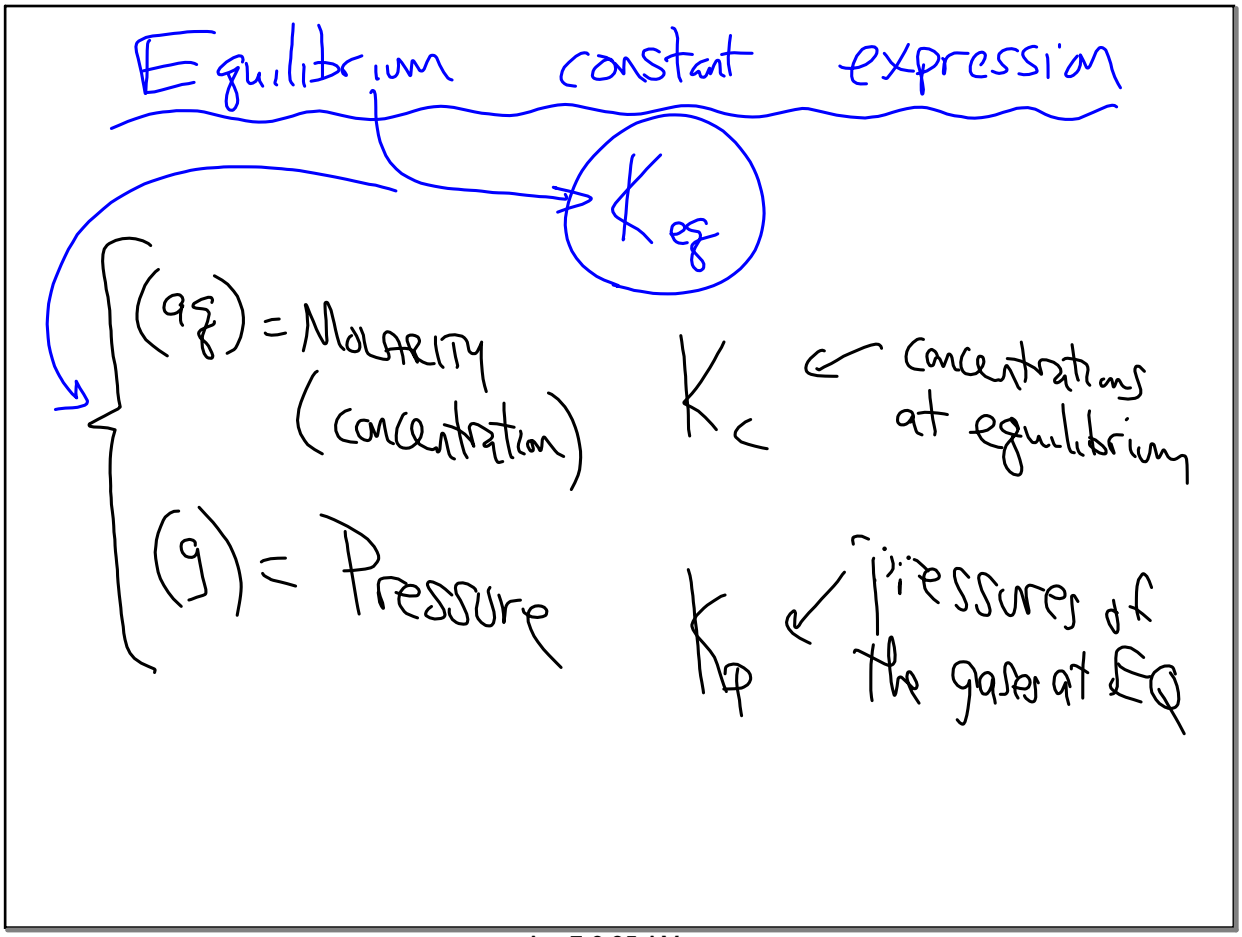
Apr 7-9:05 AM



Apr 7-9:13 AM



Apr 7-9:23 AM



Apr 7-9:35 AM

Rate forward rxn = Rate Reverse rxn

AT EQUILIBRIUM !

$A + 2B \rightarrow 3C$

$$K_{eq} = \frac{[C]^3}{[A]^1[B]^2} \quad \frac{(Products)^{coeff}}{(Reactants)^{coeff}}$$

or "Mass Action Expression"

Apr 7-9:43 AM

$$N_{2(g)} + 3H_{2(g)} \rightleftarrows 2NH_{3(g)}$$

$$K_{eq} = \frac{[NH_3]^2}{[N_2][H_2]^3} = \frac{(0.01)^2}{(0.02)(0.02)^3} = 625$$

$$K_{eq} = (0_2)^3 = (0.05)^3 = 1.25 \times 10^{-4}$$

0.000125

Apr 7-9:47 AM

$$K = \frac{[Prod]^{coeff}}{[react]^{coeff}}$$

625 $K >> 1$ Favors product formation →

0.0016 $K << 1$ Favors reactants ←

Apr 7-10:00 AM

HW

16A+16B #1, 2, 3

Apr 7-10:02 AM