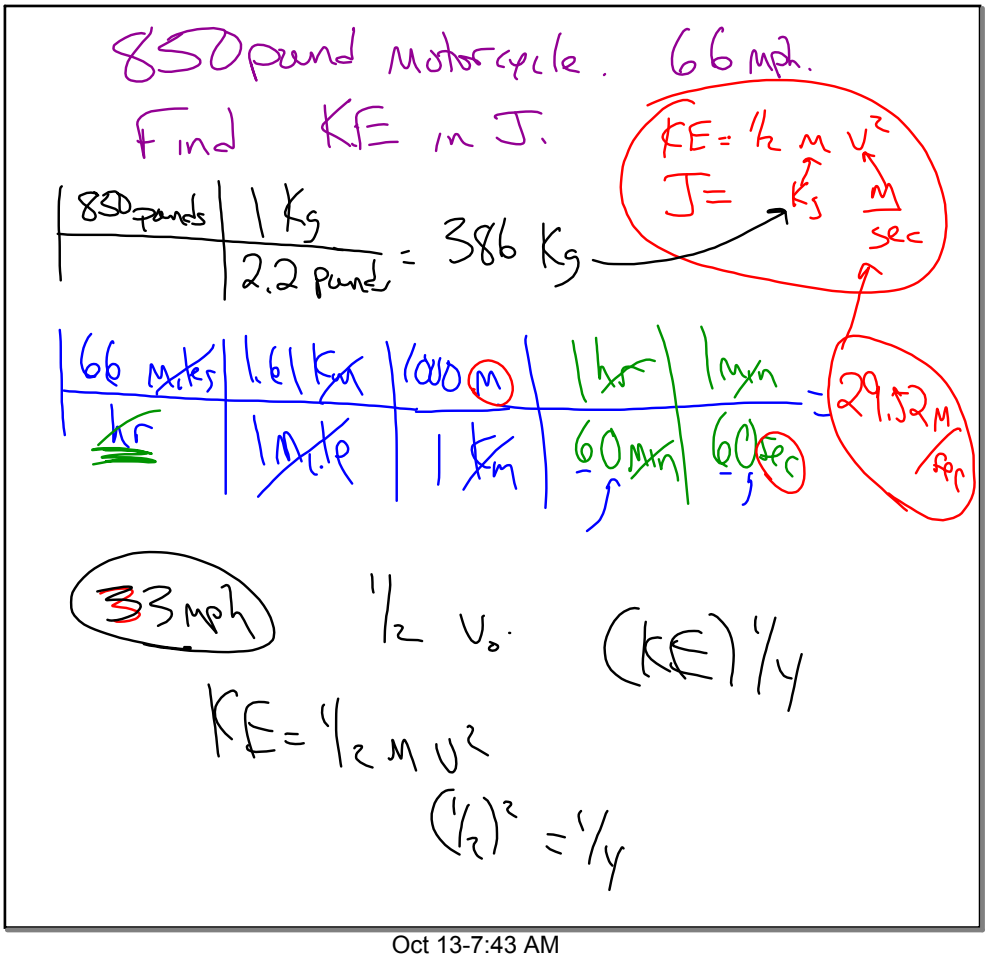
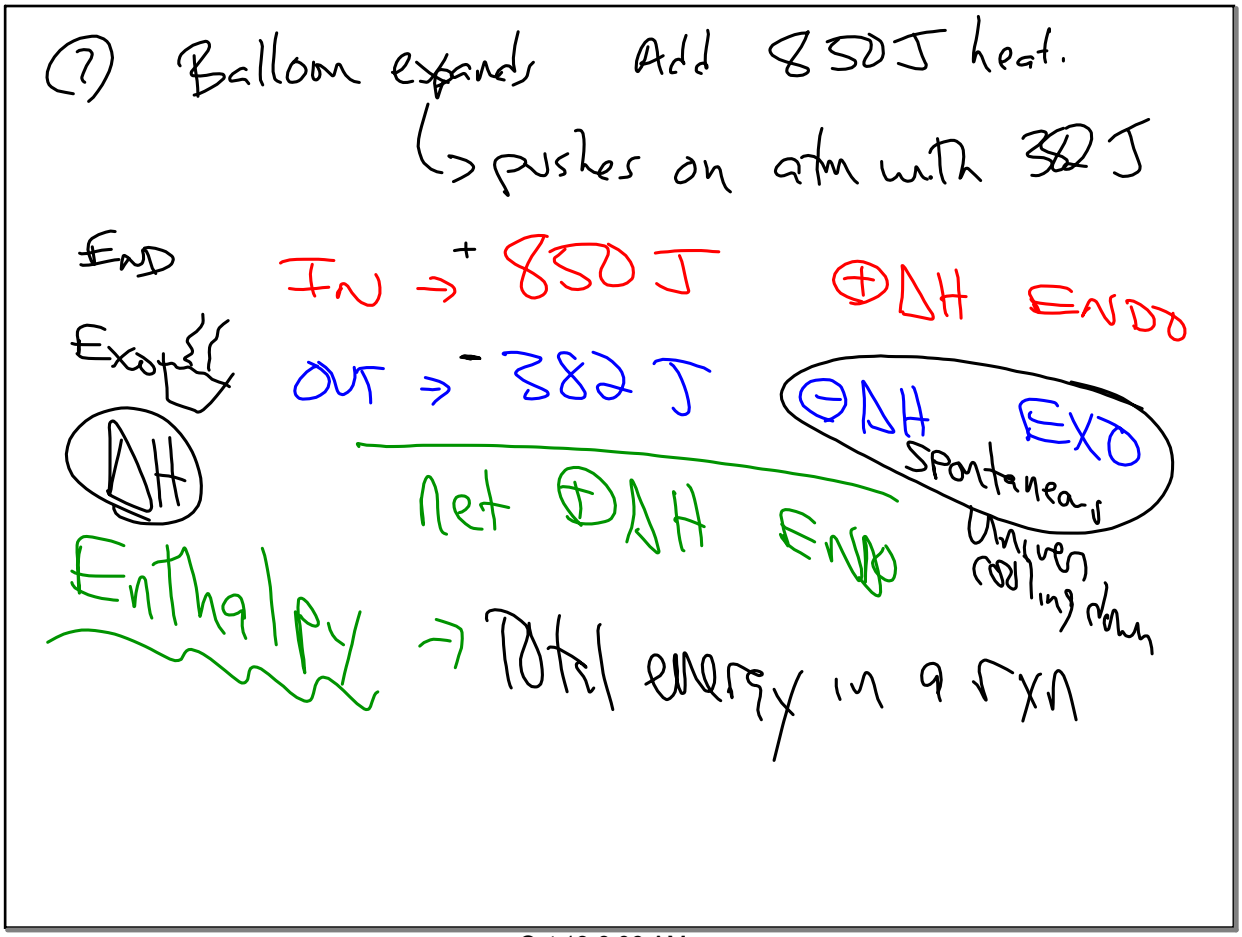



Oct 13-7:43 AM



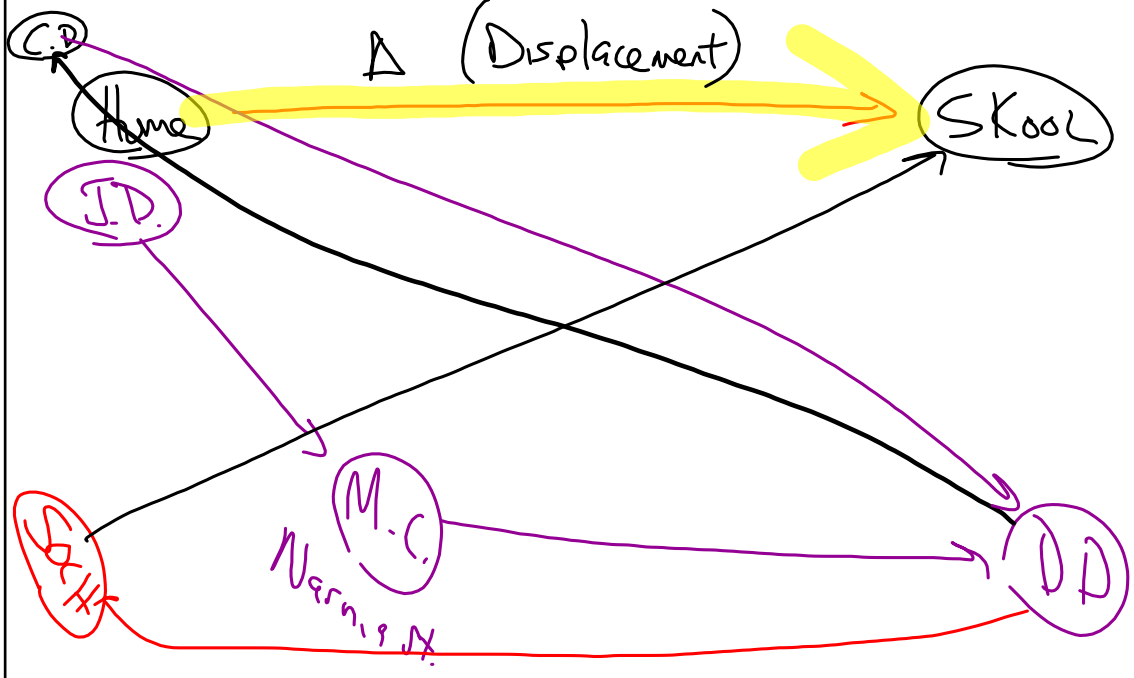

Oct 13-8:06 AM

ENTROPY $\Delta S$ $\oplus \Delta S$ Spont
clean room $\Rightarrow$ $\ominus \Delta S$ Non-Spont.
↳ measure of disorder

Oct 13-8:18 AM

State functions

$\Delta$ (Displacement)




Oct 13-8:20 AM

# moles - Coeff. of balanced rxn

$$\Delta H_{rxn} = n\Sigma \Delta H_{prod} - n\Sigma \Delta H_{reactants}$$

BALANCED!

"Sigma" SUM

Oct 13-8:28 AM

$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$ Exo $\Delta H = -890\ kJ$

$CH_4$ Fuel

Reactants Goes In — ENDO

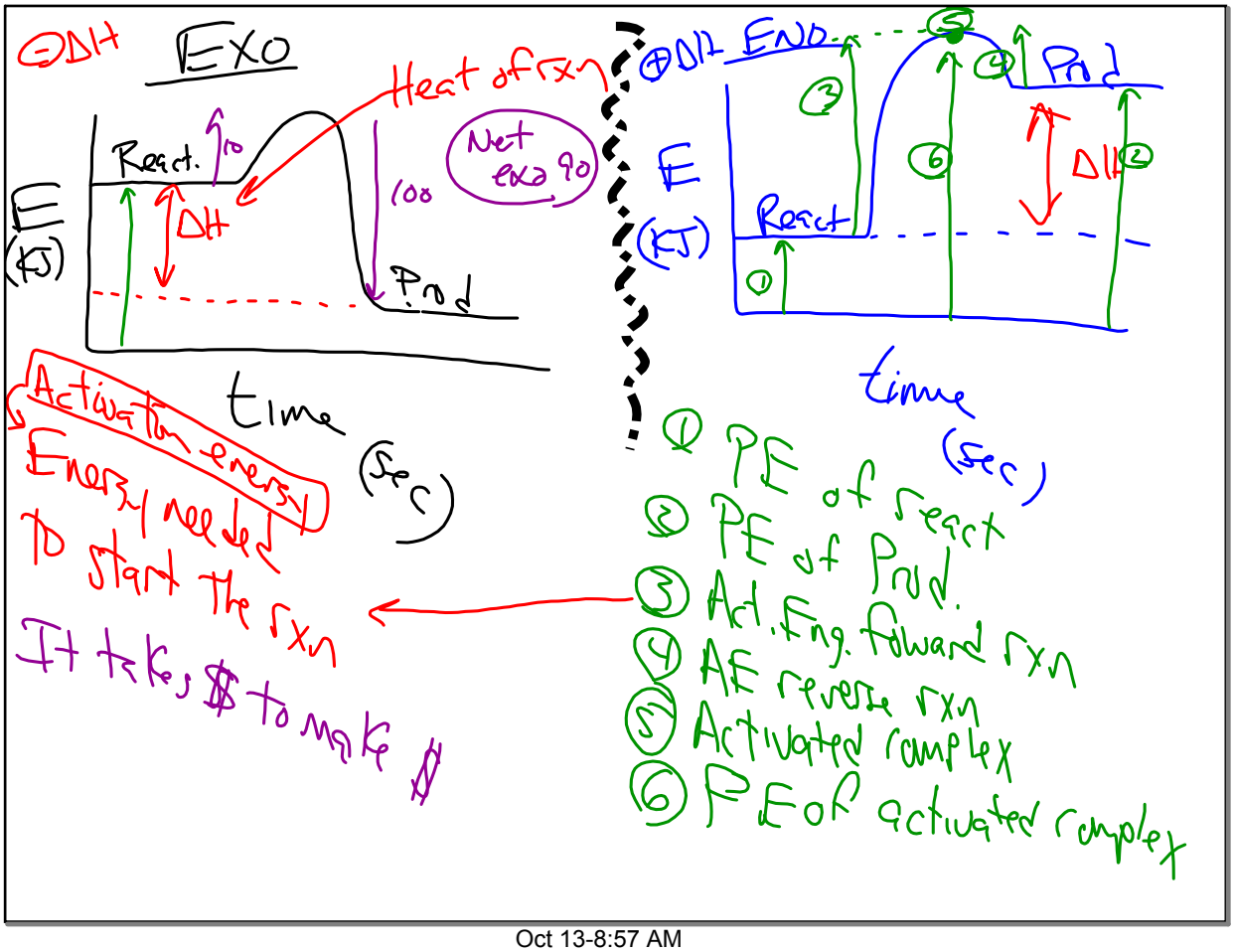
Products Comes out. — EXO

$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O + 890\ kJ$

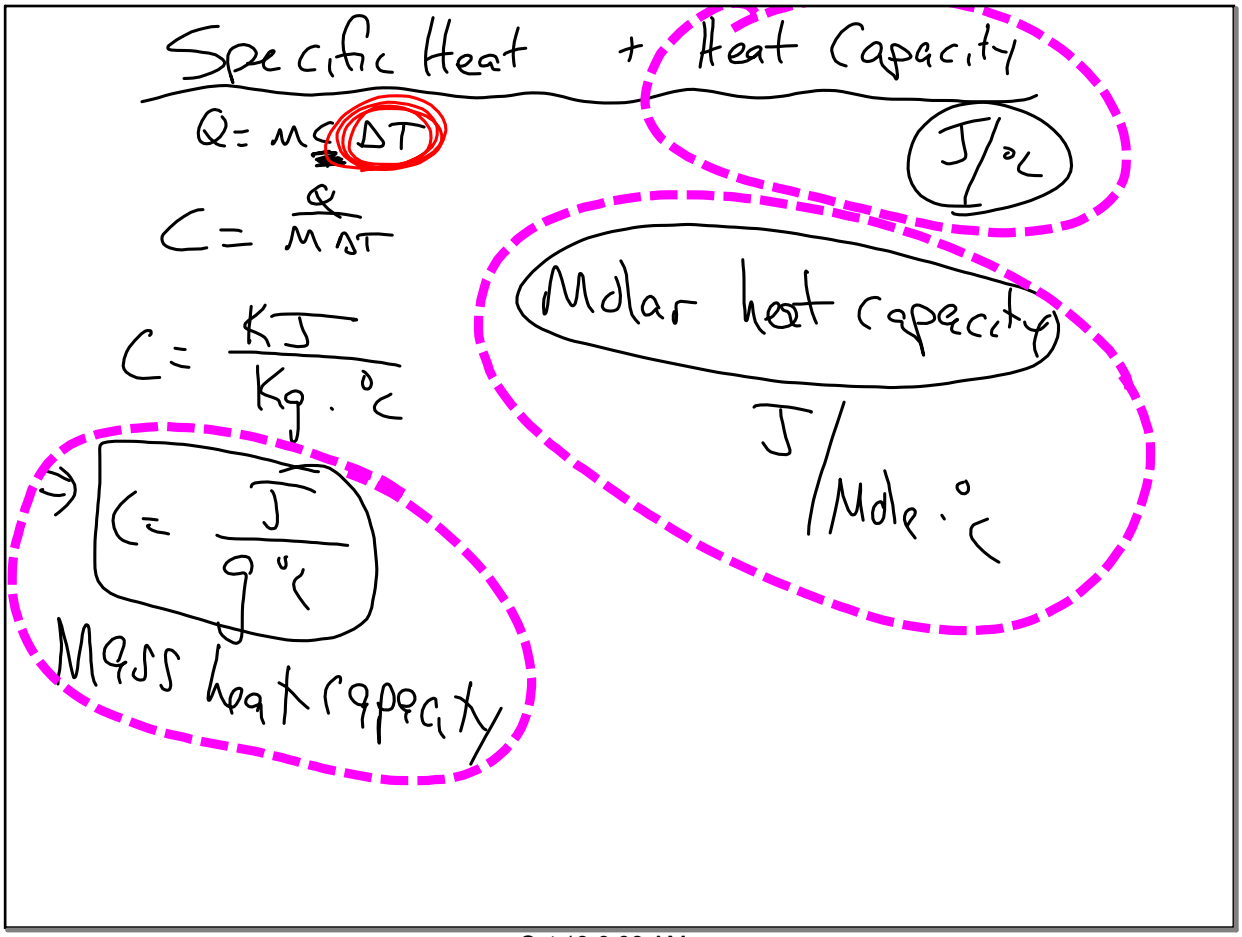
10g — kJ

$$\frac{10\ g\ CH_4}{16\ g\ CH_4} \left| \frac{1\ mole\ CH_4}{1\ mole\ CH_4} \right| \frac{890\ kJ}{1\ mole\ CH_4} = 556.25\ kJ$$

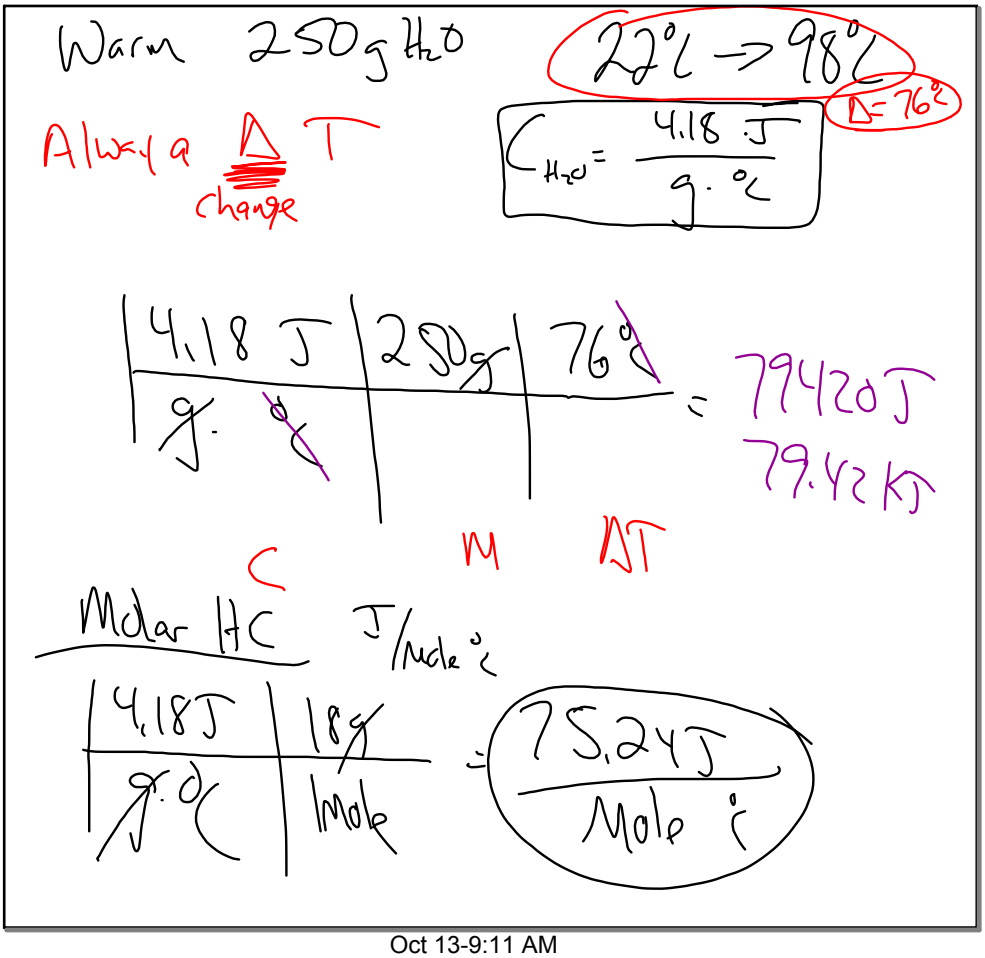
Oct 13-8:47 AM



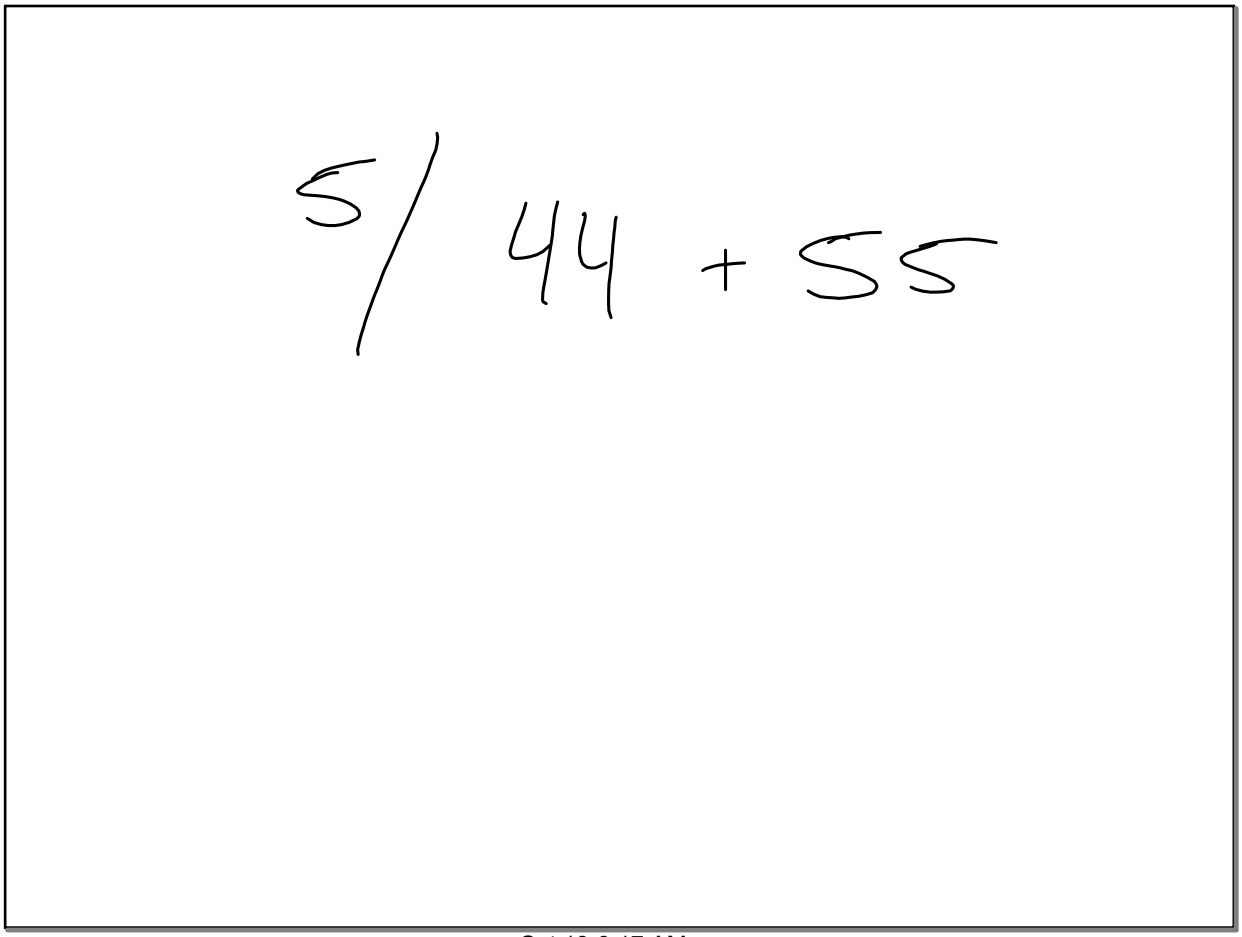

Oct 13-8:57 AM




Oct 13-9:08 AM




Oct 13-9:11 AM




Oct 13-9:17 AM