

① KE $\frac{1}{2} m v^2$
 KE $\frac{1}{2} (9.109 \times 10^{-31} \text{ kg}) (6 \times 10^6)^2 = 1.64 \times 10^{-17} \text{ J}$

②

$\rightarrow 79 \text{ KJ lost}$
 $\rightarrow 213 \text{ KJ work}$
 -292 KJ TOTAL

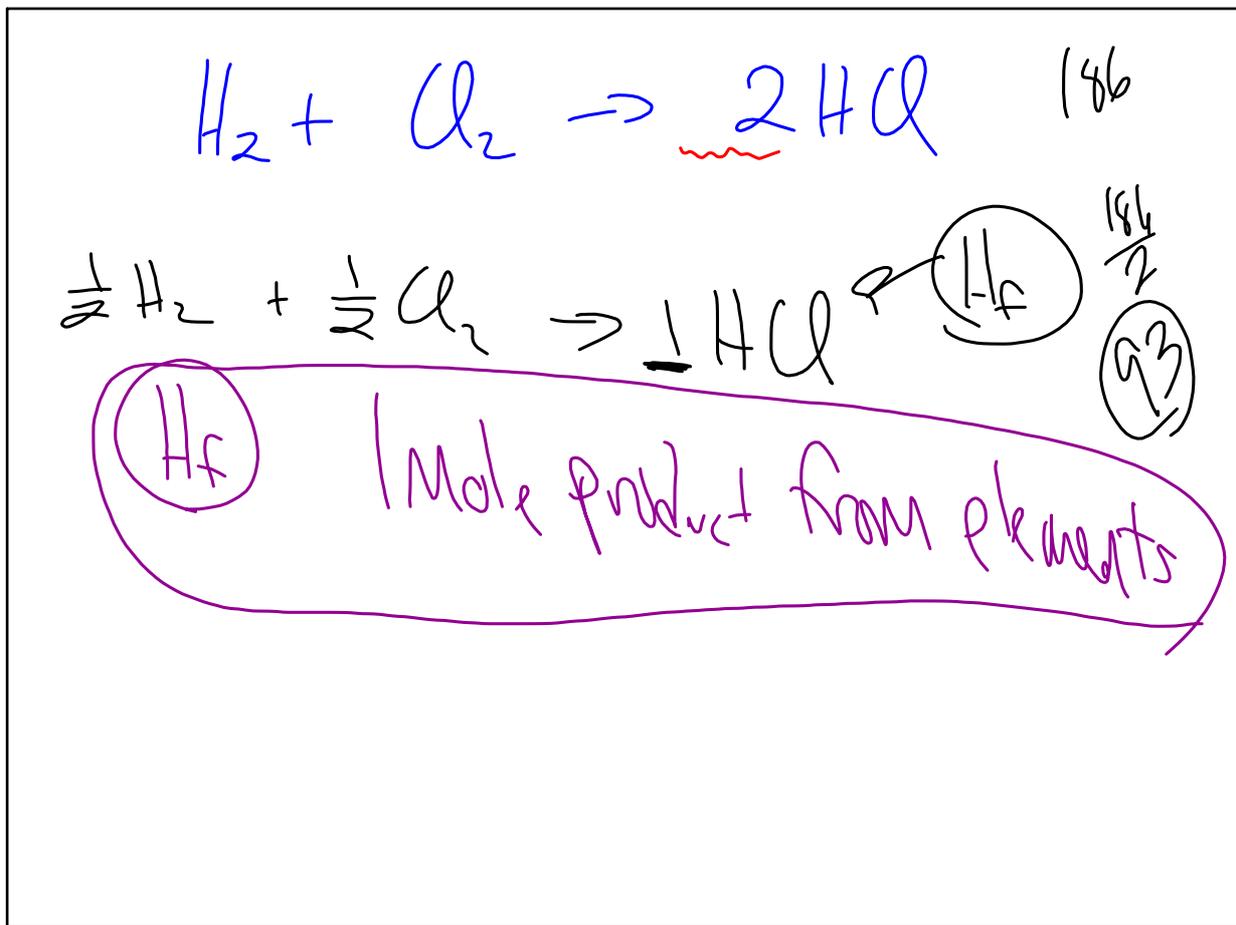
Oct 24-7:36 AM

Lose energy. $-\Delta H$
 \hookrightarrow Molecular motion slows
 $\downarrow \rightarrow \downarrow \rightarrow \downarrow$

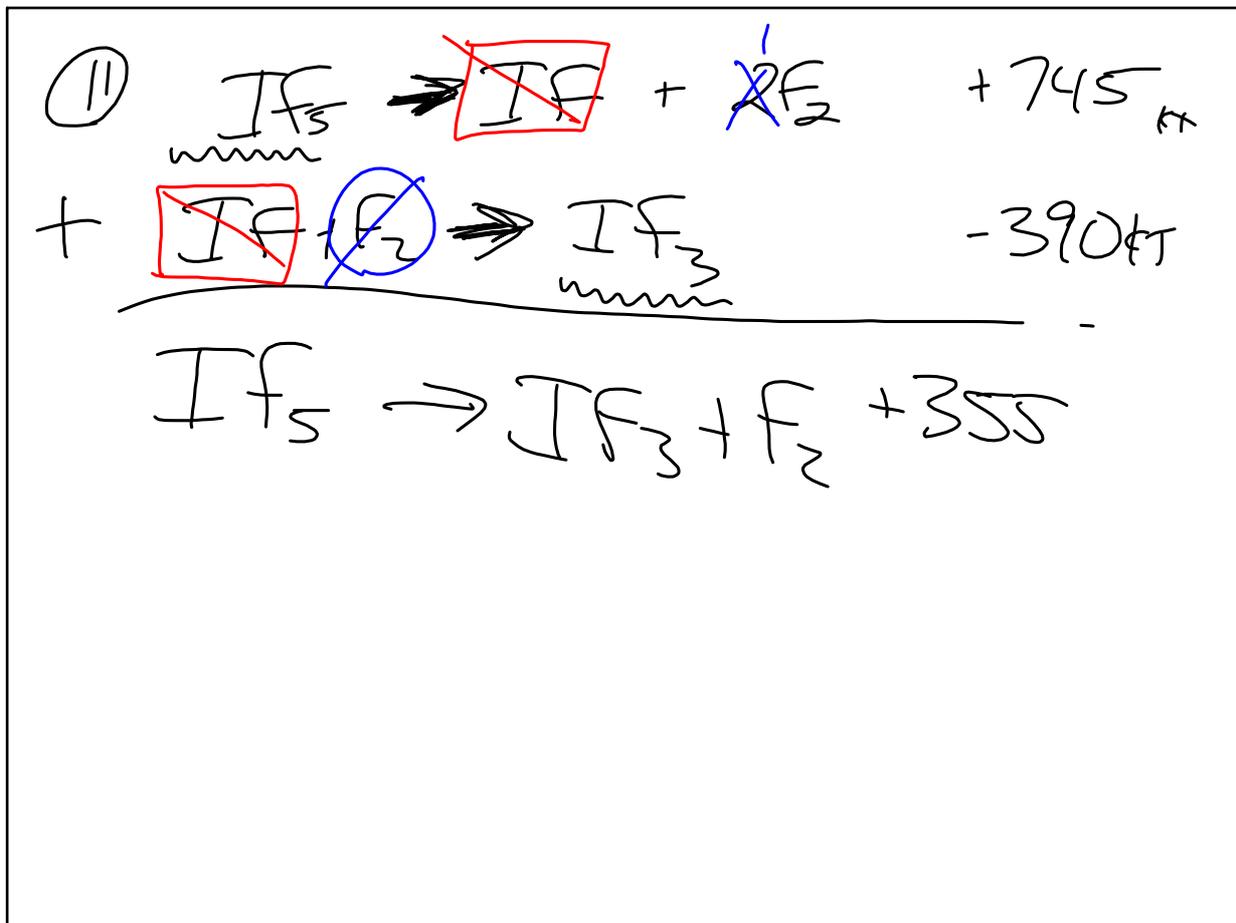
⑦

25 g Na_2O_2	1 mole Na_2O_2	-126 kJ
78 g Na_2O_2	2 mole Na_2O_2	

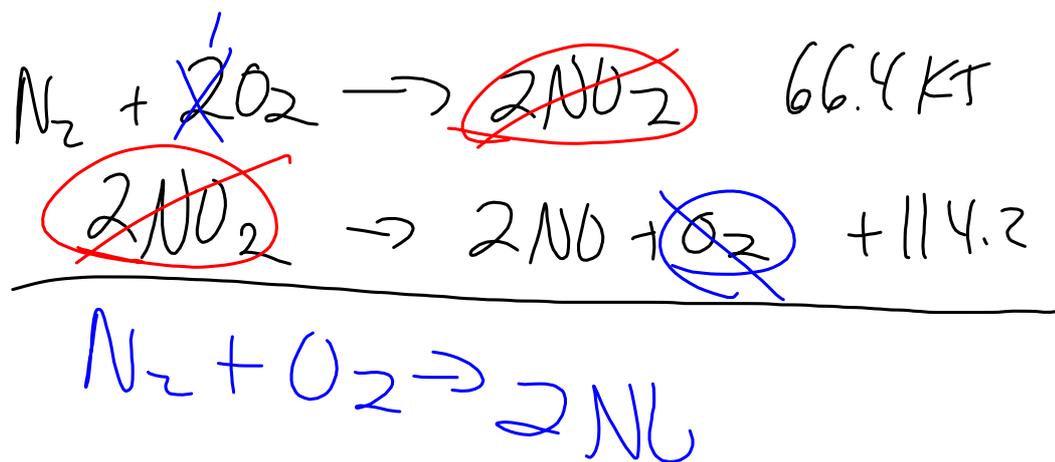
Oct 24-8:01 AM



Oct 24-8:06 AM



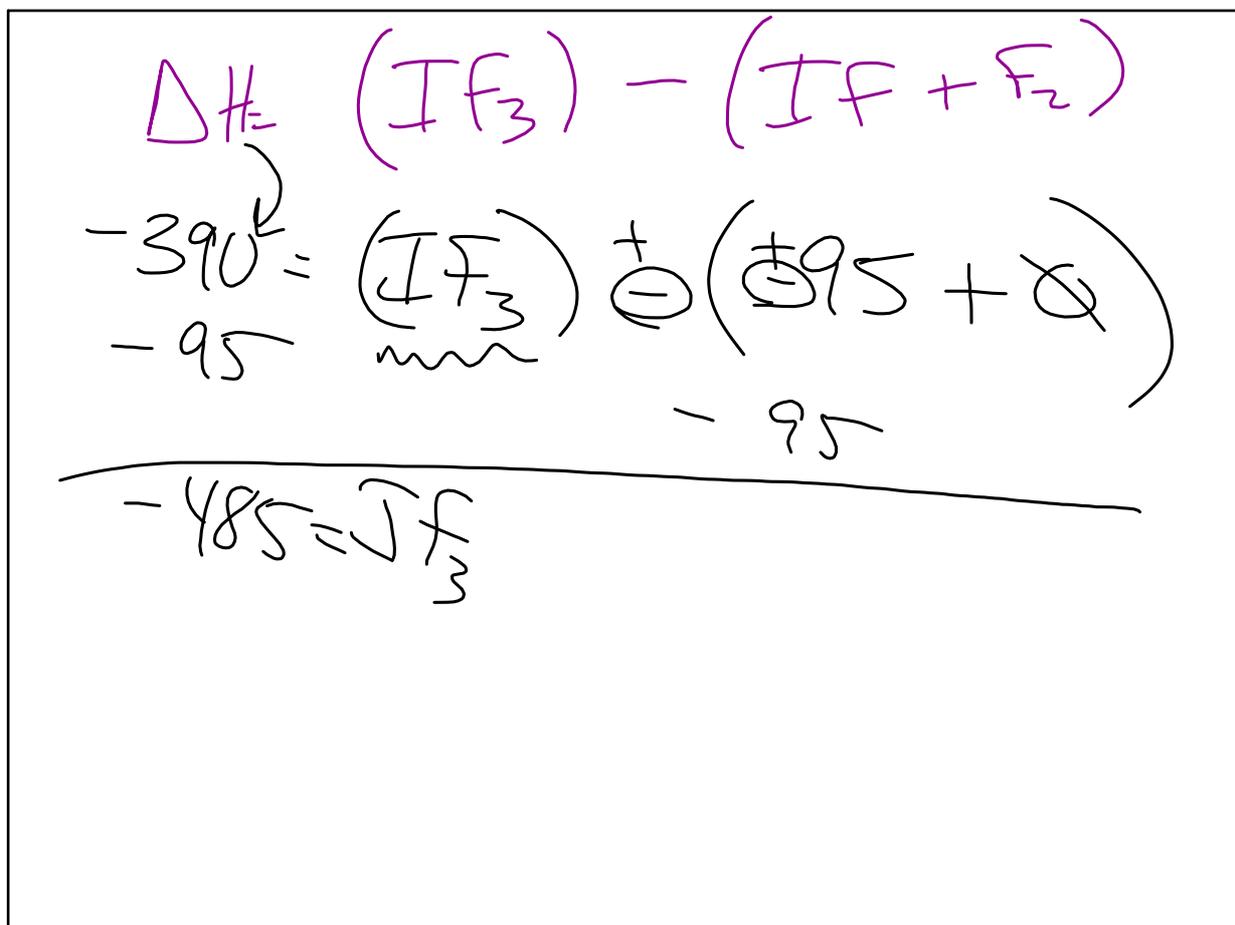
Oct 24-8:10 AM



Oct 24-8:15 AM

$$\begin{array}{r}
 (-941) \ominus \oplus \left(\oplus 840 + \overset{\text{F}_2}{\otimes} \right) \\
 -101
 \end{array}$$

Oct 24-8:23 AM



Oct 24-8:27 AM