



Fevereiro - 2020

01)  $PC = \frac{\Delta H}{MM} = \frac{KJ/mol}{g/mol} \rightarrow KJ/g$

MATO  
ETANOL -  
 $\frac{1 kcal}{l} \therefore \frac{R\$}{l}$   
 $\frac{PC}{R\$} =$

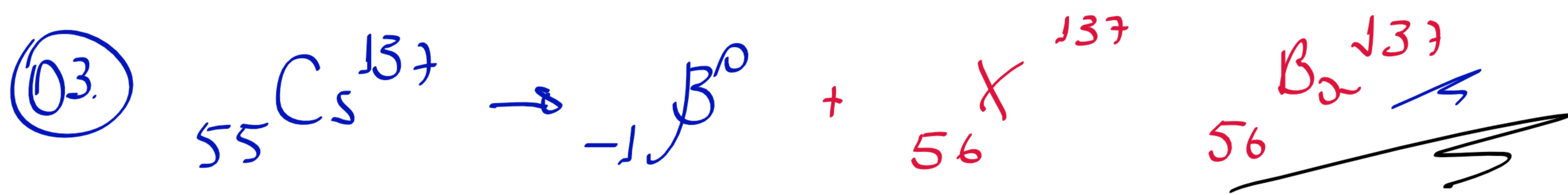
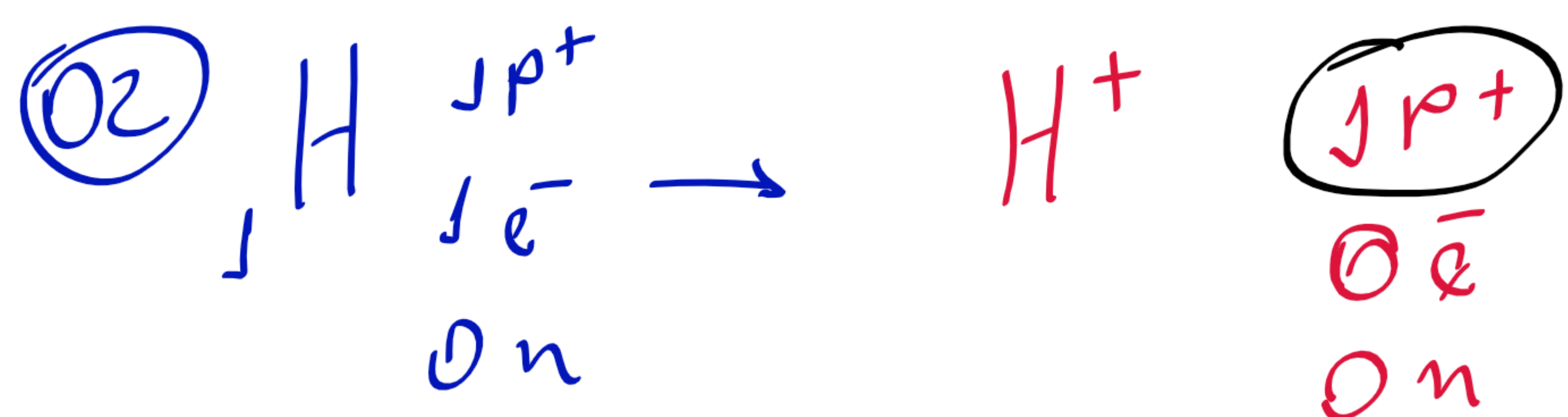
PC.  
ETANOL  
5380 kcal  
l  
GASOLINA  
8325 kcal/l

MINAS  
 $\frac{PC}{R\$} =$   
ETANOL  $\frac{5380}{2868} = 1.875,22 \text{ KJ/R\$}$   
GASOL.  $\frac{8325}{4468} = 1.863,25 \text{ KJ/R\$}$

$\frac{5380}{2,538} = 2.118,95 \text{ KJ/R\$}$

GASOLINA  
 $\frac{8325}{4,378} = 1.901,55 \text{ KJ/R\$}$

$\frac{PC_{ET}}{PC_{GAS}} = \frac{5380}{8325} = 0,646$   
64,6%



$P = 30,2 \text{ ANOS}$

a)  $t = ?$   
 $m = \frac{m_0}{2^x} \rightarrow \frac{1}{4} = \frac{1}{2^x} \rightarrow 2^x = 4 \rightarrow 2^x = 2^2$   
 $m = \frac{1}{4}$   
 $X = 2$

$m_0 = 1$   
 $P = \frac{t}{X} \rightarrow 30,2 = \frac{t}{2} \rightarrow t = 60,4 \text{ ANOS}$

