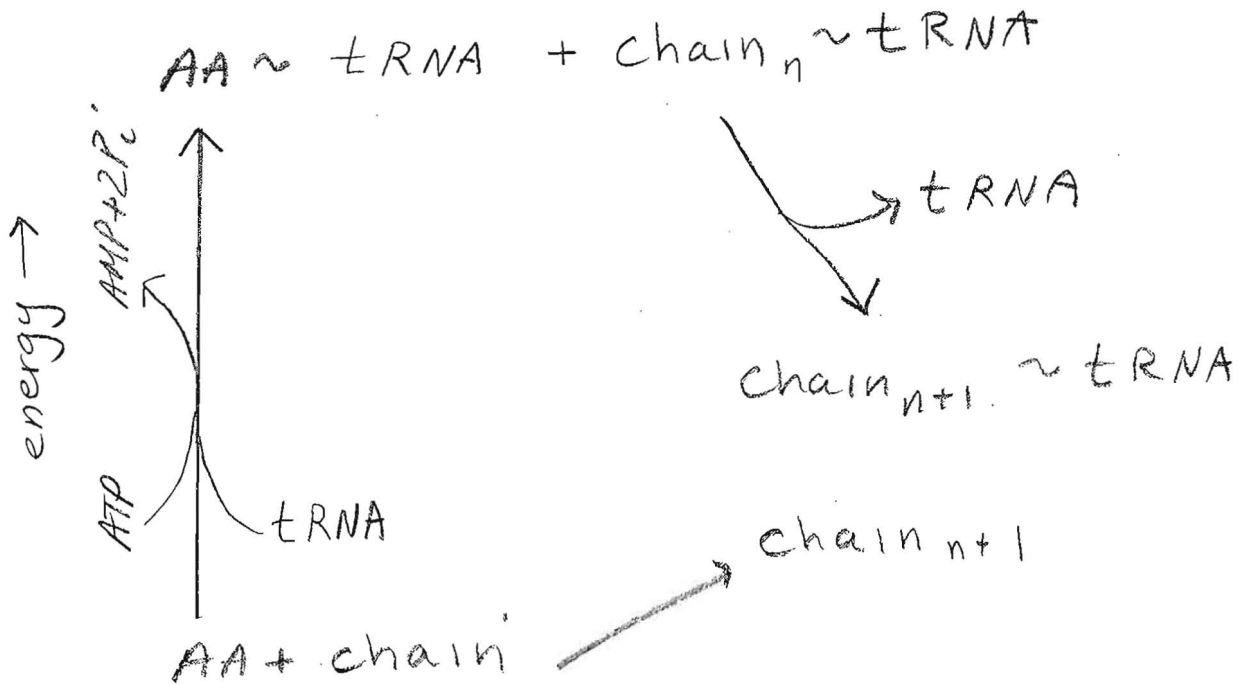
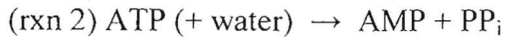
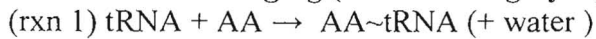


# Loading of tRNA

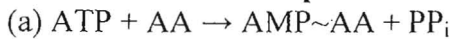
14B



## Sum of reactions for charging (not including Pyrophosphatase)



## How reactions 1 & 2 are coupled:



## Sum of reactions for charging -- including Pyrophosphatase

