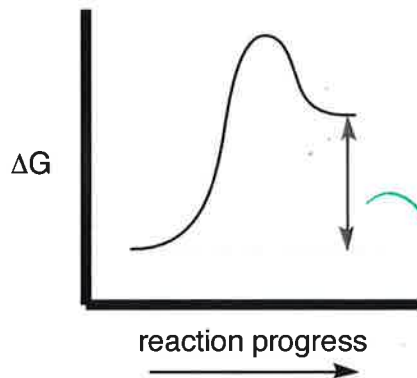


Chemistry 240
Prof. B. Hanson
Spring 2018

Name: KEY

Quiz #1

Consider this energy diagram representing acid dissociation (i.e. $\text{HA} \rightleftharpoons \text{H}^+ + \text{A}^-$). Which of the statements below are true? Check the box if the statement is true.



- The reaction is favorable.
- HA is a weak acid.
- In the reverse direction, the A^- would be acting as a base.
- A^- is a strong base.
- The pK_a of HA is negative.

if (2) is true
then (4) must
also be true

ΔG is (+)
 K_a is $\ll 1$
 pK_a is (+)