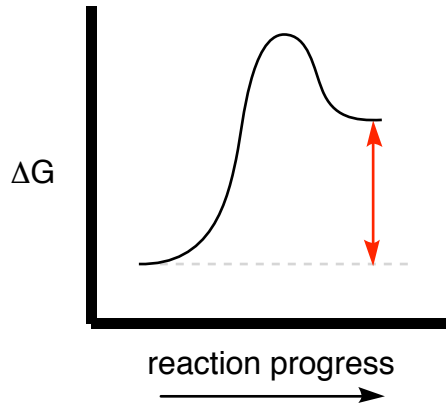


Quiz #1

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.



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