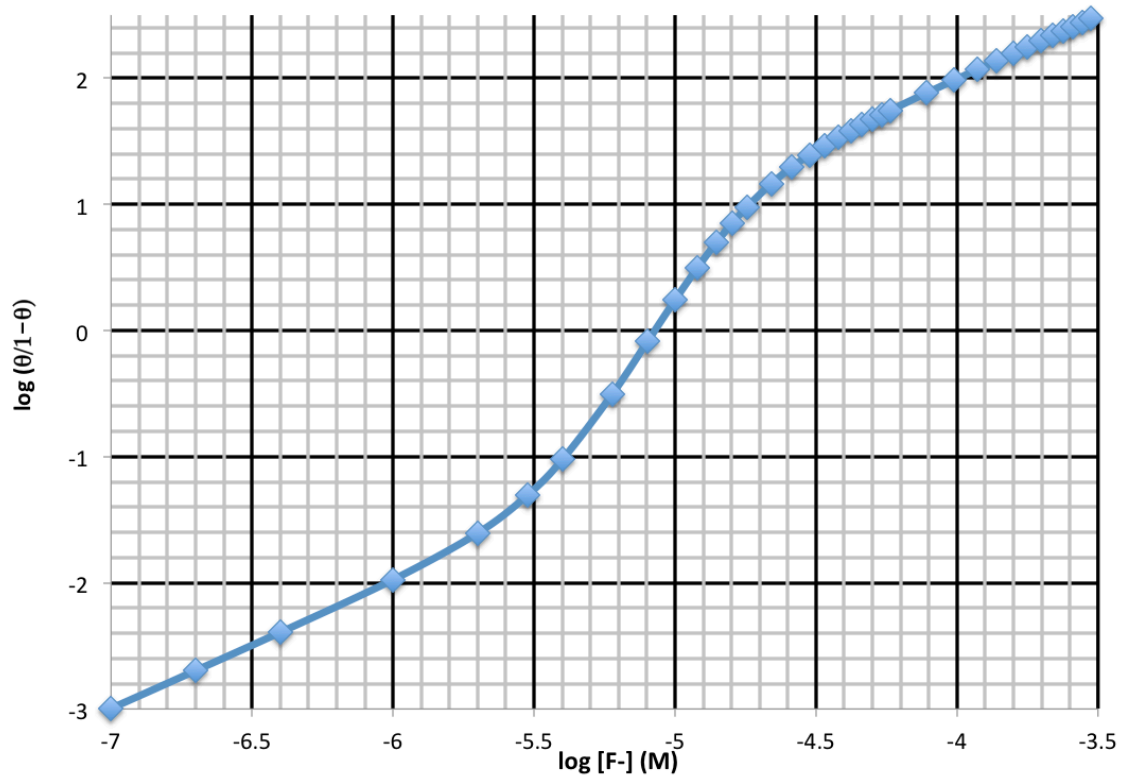


Quiz 20

NAME: _____



1. Determine the K_D for the tense and relaxed states of the protein from the data above.

2. Describe how enzymes use metal catalysis.

3. Draw a Gibbs free energy (G) diagram for $A \rightarrow B$ and $C \rightarrow D$, where $A \rightarrow B$ is slower than $C \rightarrow D$.

4. The earliest enzymologists (as well as, current ones) were intrigued by experiments which hold the [enzyme] constant, while varying the [substrate]. What is particularly interesting about the initial rate of an enzyme-catalyzed reaction as [substrate] get large?