1. what are the advantages and disadvantages of the Michaelis menten equation/graph?

   advantages:

   disadvantages:

2. bigger Km = _____ affinity

3. what are the advantages and disadvantages of Lineweaver Burke?

   advantages:

   disadvantages:

4. what is the purpose of both LWB and MM?

5. what kind of curve is seen when using the MM equation?
   Draw this graph & label appropriately.

6. Define competetive inhibition and draw the reaction. give both the written chemical equation and associated graph.

7. Define noncompetetive inhibition and draw the reaction. give both the written chemical equation and associated graph.

8. Define uncompetetive inhibition and draw the reaction. give both the written chemical equation and associated graph.

9. Draw the 3 graphs of competetive, uncompetetive, and noncompetitive for both LWB & MM

10. Assume you have a LWB plot and determine the x-intercept is approximately 4.
   – what is the corresponding Km value?

11. Assume you have a LWB plot and determine the x-intercept is approximately –6
   – what is the corresponding Km value?

12. consider the following data for an enzyme-catalyzed hydrolysis reaction in the presence and absence of inhibitor I

[substrate] [M]	Vo [μmol/min]	VoI (μmol/min)
6×10^{-6}	20.8	4.2
1×10^{-5}	29	5.8
2×10^{-5}	45	9
6×10^{-5}	67.6	13.6
1.8×10^{-4}	87	16.2

Using the MM plot, determine Km for the uninhibited and inhibited reaction

Using the data above,
   a. generate lineweaver-Burk plots
   b. explain the significance of the horizontal intercept, the vertical intercept, and the slope