

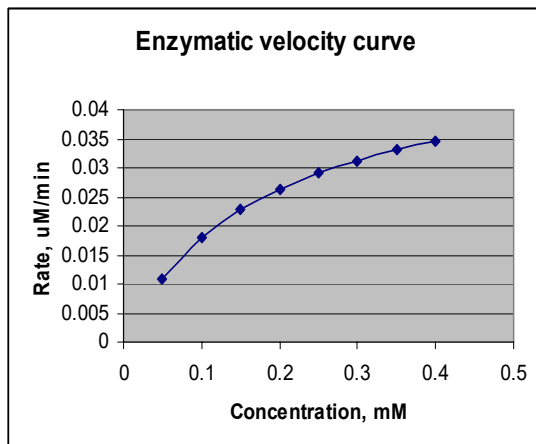
Cheryl Coolidge

Pretest
Enzyme Kinetics, Part Two

1. Consider the equation $y = \frac{2x}{x+3}$. Rearrange the equation into a linear equivalent.

2. Consider the table below for an enzyme catalyzed reaction, and the resulting graph:

mM	uM/min
0.05	0.01087
0.1	0.017857
0.15	0.022727
0.2	0.026316
0.25	0.02907
0.3	0.03125
0.35	0.033019
0.4	0.034483



- a. What is K_m ? V_{max} ? Can you determine them from this graph? Why or why not?

- b. What transformation can you do to be able to accurately determine these parameters? Perform this transformation and give values for K_m and V_{max} .