



$$V = k_{cat}[E]_T \frac{[S]}{K_M + [S]} = k_{cat}[E]_T \frac{1}{1 + K_M/[S]}$$

1. What will V be for $[S] = 0$?
2. What will V be for $[S] \gg K_M$?
3. What will V be for $[S] = K_M$?
4. In the space below, sketch your best guess for the shape of a V vs $[S]$. Put $[S]$ on the x-axis, V on the y-axis.
5. Can you find and label K_M and k_{cat} on your curve?