

Enzymkinetik:

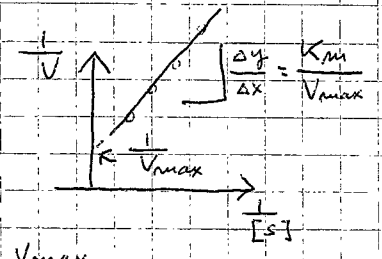
MM

$$v = \frac{v_{max} [S]}{K_m + [S]}, \quad K_m = \frac{k_{a'} + k_{a}}{k_{a}}$$

$$v_{max} = k_b \cdot e_0$$

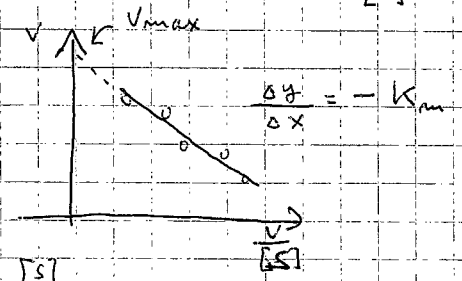
LB

$$\frac{1}{v} = \frac{K_m}{v_{max}} \cdot \frac{1}{[S]} + \frac{1}{v_{max}}$$



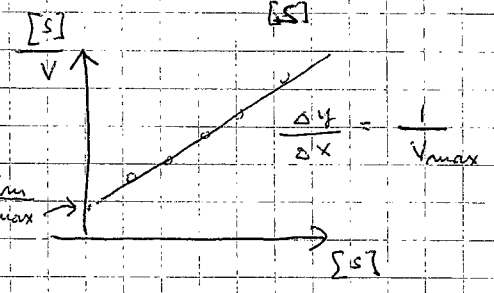
Eadie-plot:

$$v = v_{max} - K_m \cdot \frac{v}{[S]}$$



Hanes+plot

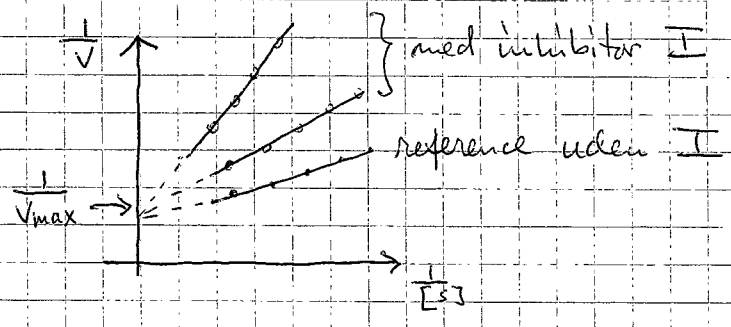
$$\frac{[S]}{v} = \frac{[S]}{v_{max}} + \frac{K_m}{v_{max}}$$



Kompetitiv inhibition

$$\frac{1}{v} = \frac{K_m \cdot \alpha}{v_{max}} \cdot \frac{1}{[S]} + \frac{1}{v_{max}} \quad (v_{max} = k_b \cdot e_0)$$

$$\alpha = 1 + \frac{[I]}{K_I}$$



Non-competitive inhibition

$$\frac{1}{v} = \frac{K_m}{v'_{max}} \cdot \frac{1}{[S]} + \frac{1}{v_{max}} \quad \text{med } v'_{max} = \frac{v_{max}}{\alpha}$$

