

$$\frac{1}{v} = \frac{K_m}{V_{max}} \left(\frac{1}{[S]} \right) + \frac{1}{V_{max}}$$

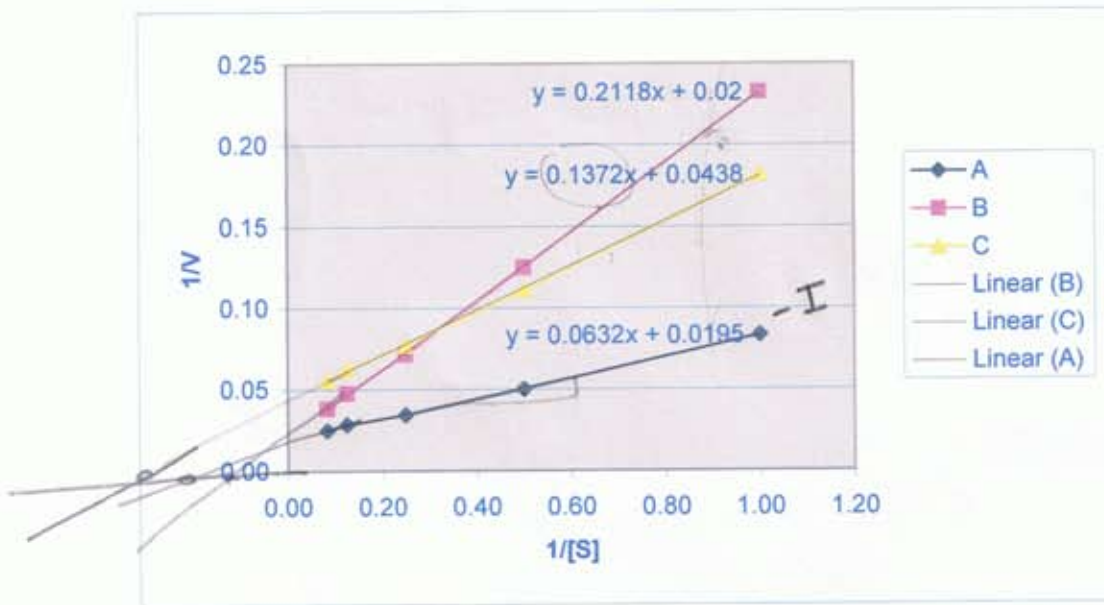
$$y = m x + b$$

[S](mM) A= V(umole/sec) B= V(umole/sec) C= V(umole/sec)

1	12	4.3	5.5
2	20	8	9
4	29	14	13
8	35	21	16
12	40	26	18

[S](mM) A= V(umole/sec) B= V(umole/sec) C= V(umole/sec)

1.00	0.08	0.23	0.18
0.50	0.05	0.13	0.11
0.25	0.03	0.07	0.08
0.13	0.03	0.05	0.06
0.08	0.03	0.04	0.06



Slope ↑ inhibitors

A) $0.0632x = -0.0195$
 $x = \frac{-0.0195}{0.0632} = -0.3085$
 $-\frac{1}{K_m} \Rightarrow K_m = \frac{1}{0.3085} = 3.24149$

$\frac{K_m}{V_{max}} = 0.6632$
 $V_{max} = 51.289$

B) $0.2118x = -0.02$
 $x = \frac{-0.02}{0.2118} = 0.094425$

$K_m \Rightarrow 10.5900$ $V_{max} = 50$

~ same
Comparative.

C) $0.1372x = -0.0438$
 $x = \frac{-0.0438}{0.1372} = 0.3192$
 $K_m \Rightarrow 3.1324$

Pure non comp.
 Cause same K_m diff V_{max}