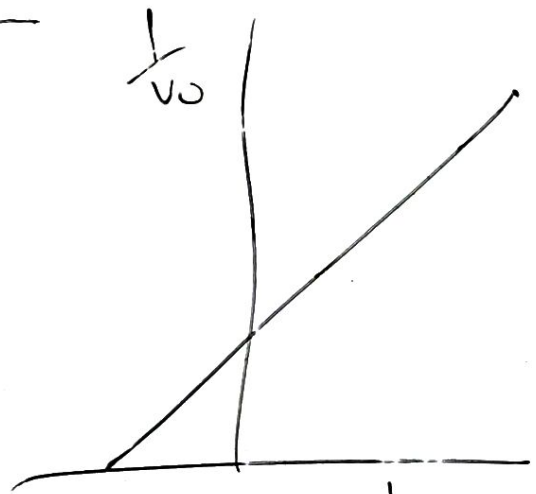
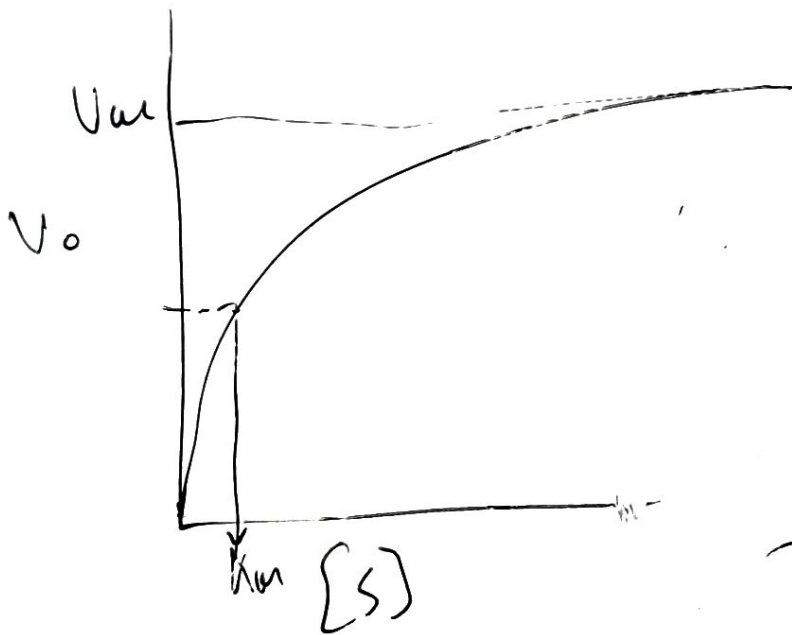


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| $[S]$ | v_0 | $[S]$ | $\frac{1}{v_0}$ | $\frac{1}{[S]}$ | $\frac{1}{v_0}$ |
|-------|-------|-----------------------------|---------------------------------------|-----------------|-----------------|
| 1 | 2 | 1 | 0.5 | 0.1 | 0.01 |
| 2 | 4 | 0.5 | 0.25 | 0.2 | 0.1 |
| 5 | 10 | 0.2 | 0.1 | 0.5 | 0.25 |
| 10 | 100 | 0.1 | 0.01 | 1 | 0.5 |



$$y = 0.4x + 0.2 \quad \frac{1}{[S]}$$

$$\left(\frac{1}{v_0} = 0.4 \left(\frac{1}{[S]} \right) + 0.2 \right)$$

$$\frac{1}{v_0} = 0.4 \left(\frac{1}{[S]} \right) + 0.2$$

$$\frac{K_m}{V_m} = 0.4$$

$$\frac{1}{V_m} = 0.2$$

$$V_m = \frac{1}{0.2} = 5$$

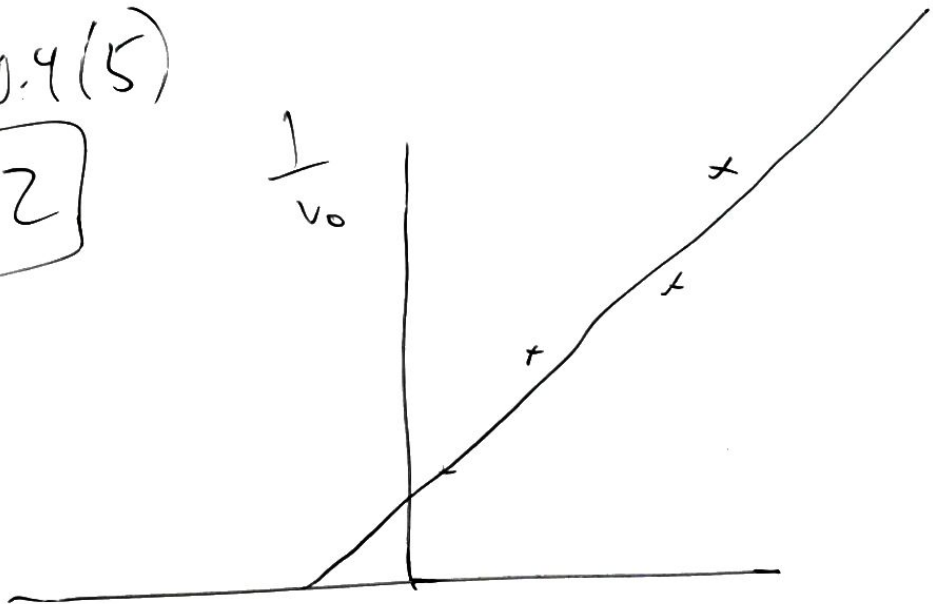
$$K_m = 0.4 (V_m)$$

$$\boxed{V_m = 5}$$

$$K_m = 0.4 (5)$$

$$\boxed{K_m = 2}$$

$$\frac{1}{v_0}$$



$$v_0 = \frac{V_m [S]}{K_m + [S]}$$

$$\boxed{\frac{1}{v_0} = \frac{K_m}{V_m} \left(\frac{1}{[S]} \right) + \frac{1}{V_m}}$$