$$M + Y \rightleftharpoons MY$$

$$V = V_{eq} \Rightarrow C_{-}^{*}(MY) = \frac{C_M^T V_M}{V_M + V_Y} = \frac{C_Y V_Y^{eq}}{V_M + V_Y}$$

$$MY \rightleftharpoons M + Y \qquad \beta' = \frac{C^{*}}{x^2} \simeq \frac{C^{*}}{t^2} \Rightarrow$$

$$C^{*} \sim x \qquad t \sim x$$

$$\Rightarrow C_M^{\prime\ell} = \frac{C_{M V_M}^{Tot}}{(V_M + V_Y)\beta'}$$

$$[My] = \frac{C_m^T v_m}{v_m + v_y}$$

$$C_y' - [y^{k-1}] = \frac{C_y v_y - C_m v_m}{v_m + v_y}$$

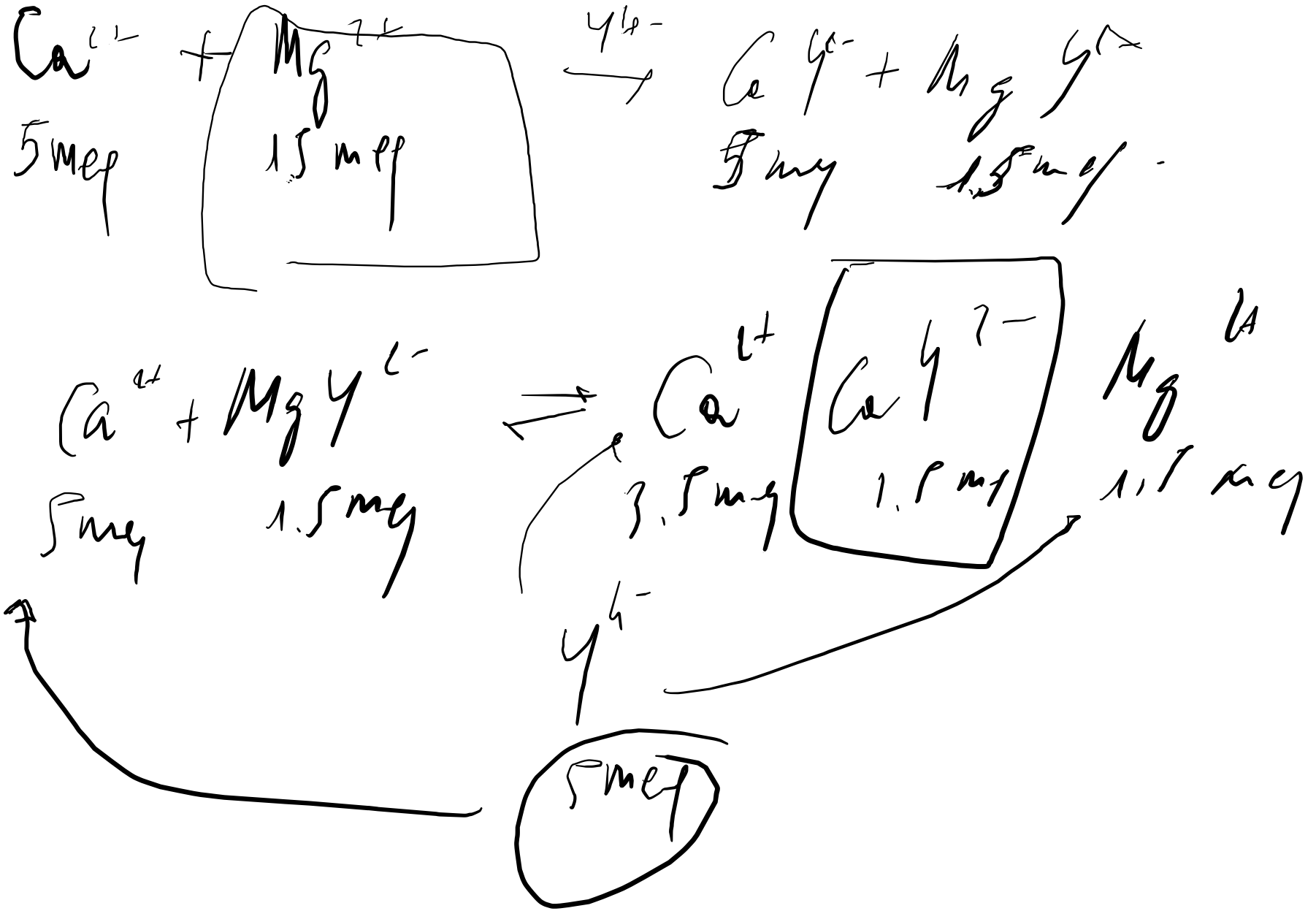
$$\beta' = \frac{[My]}{C_m C_y'} \Rightarrow C_m' = \frac{C_m^T v_m}{(v_m + v_y)} \frac{(v_m + v_y)}{(C_y v_y - C_m v_m)\beta'}$$

$$C_m' = \frac{[My]}{C_y' \beta' a_y}$$

$$\beta' = \frac{\beta}{B_y^{4-1}} \Rightarrow \log \beta' = \log \beta - \log B_y^{4-}$$

$$\log \beta' = 0 = \log \beta - \log B_y \Rightarrow$$

$$\log \beta = \log B_y + 4$$


Ca2+ + Mg2+
5 mep
15 mep
Y4-
CaY2- + MgY2-
5 mep
15 mep
Ca2+ + MgY2-
5 mep
1.5 mep
CaY2-
3.5 mep
1.5 mep
Mg2+
1.5 mep
Y4-
5 mep