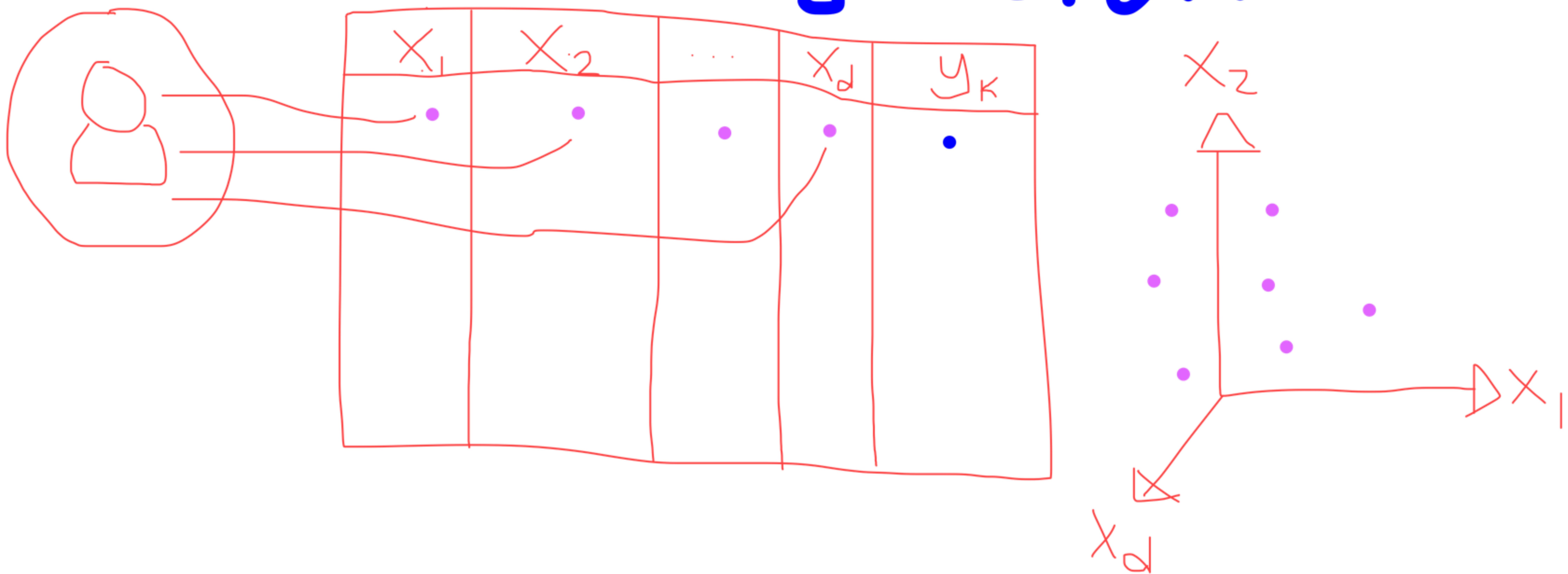
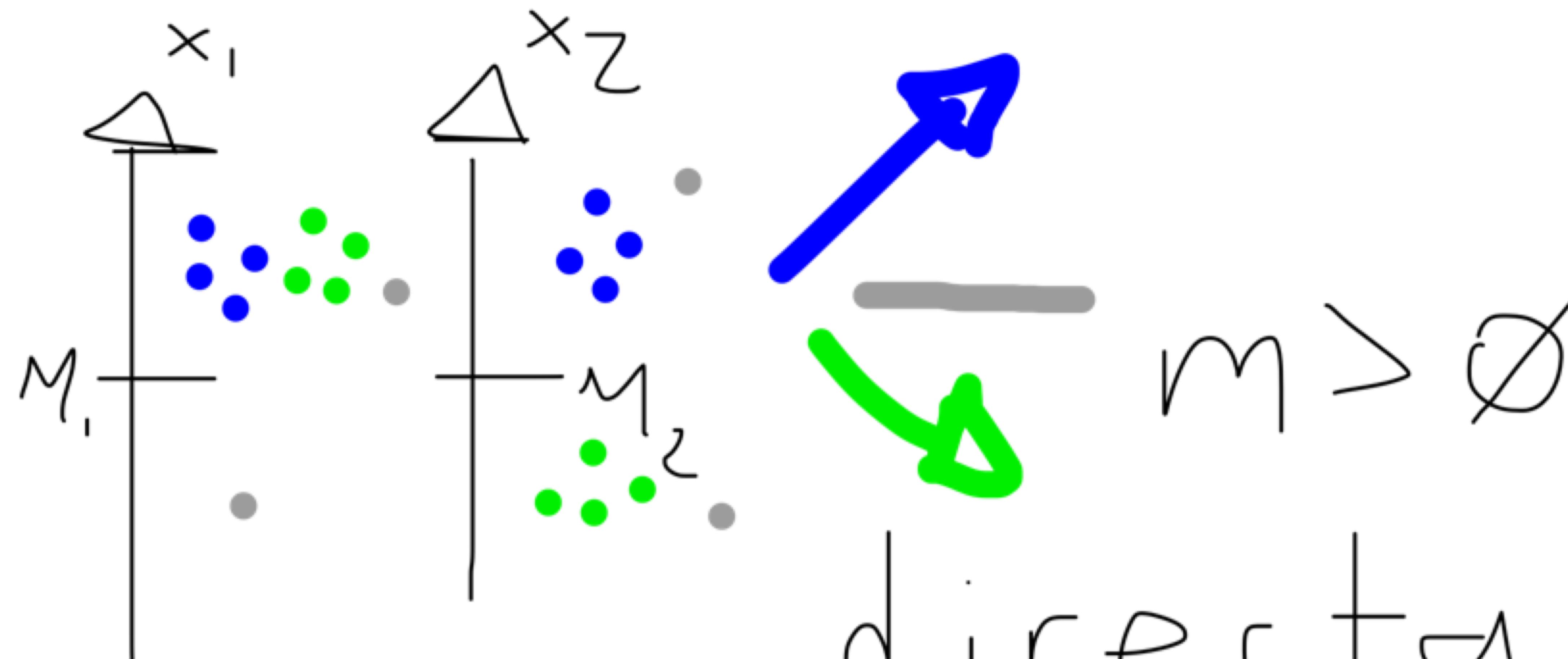
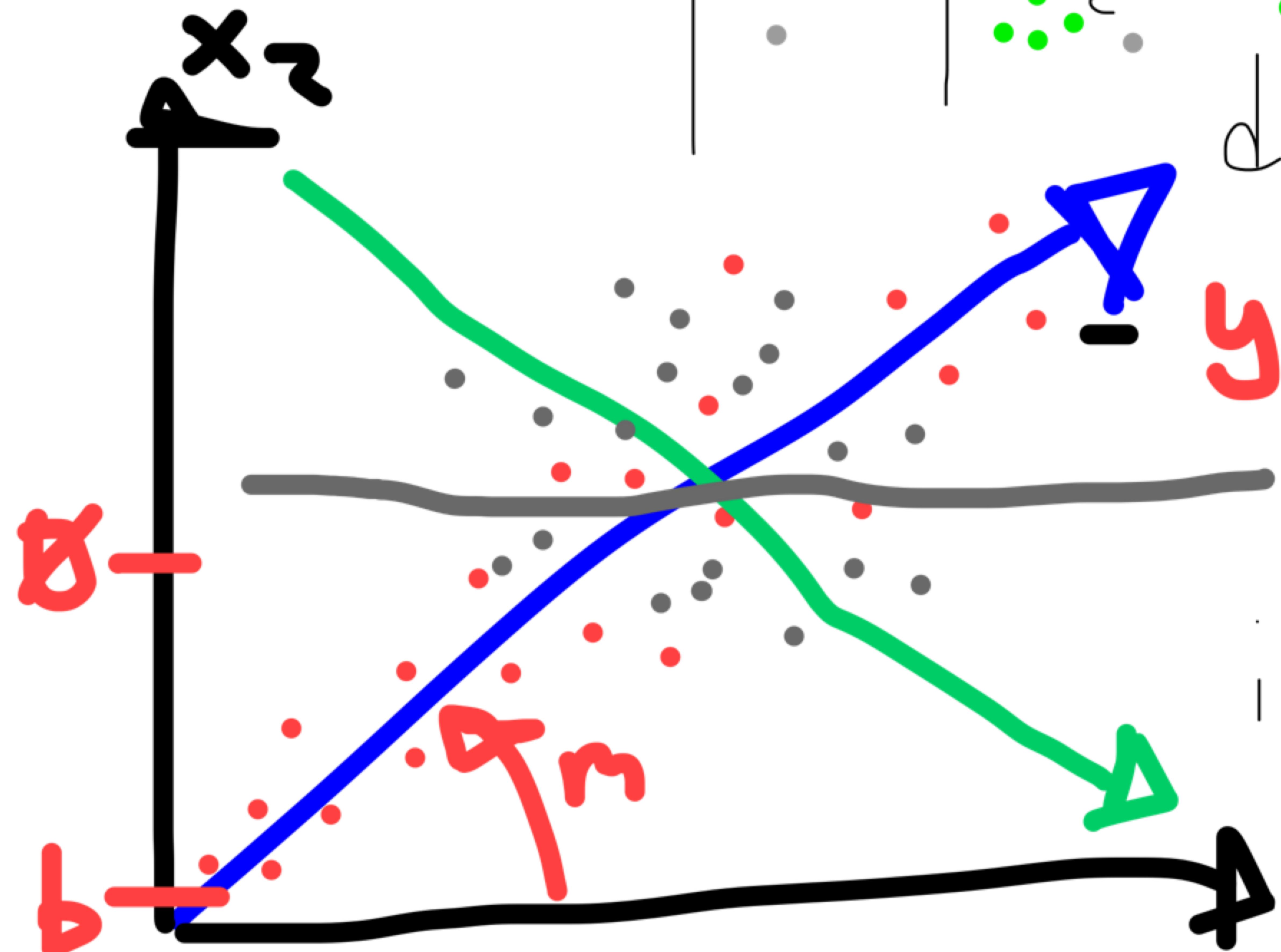


Aprendizaje Supervisado

Clasificación Regresión



Regresión



$$y = mx + b$$

directa (+)

$$m < 0$$

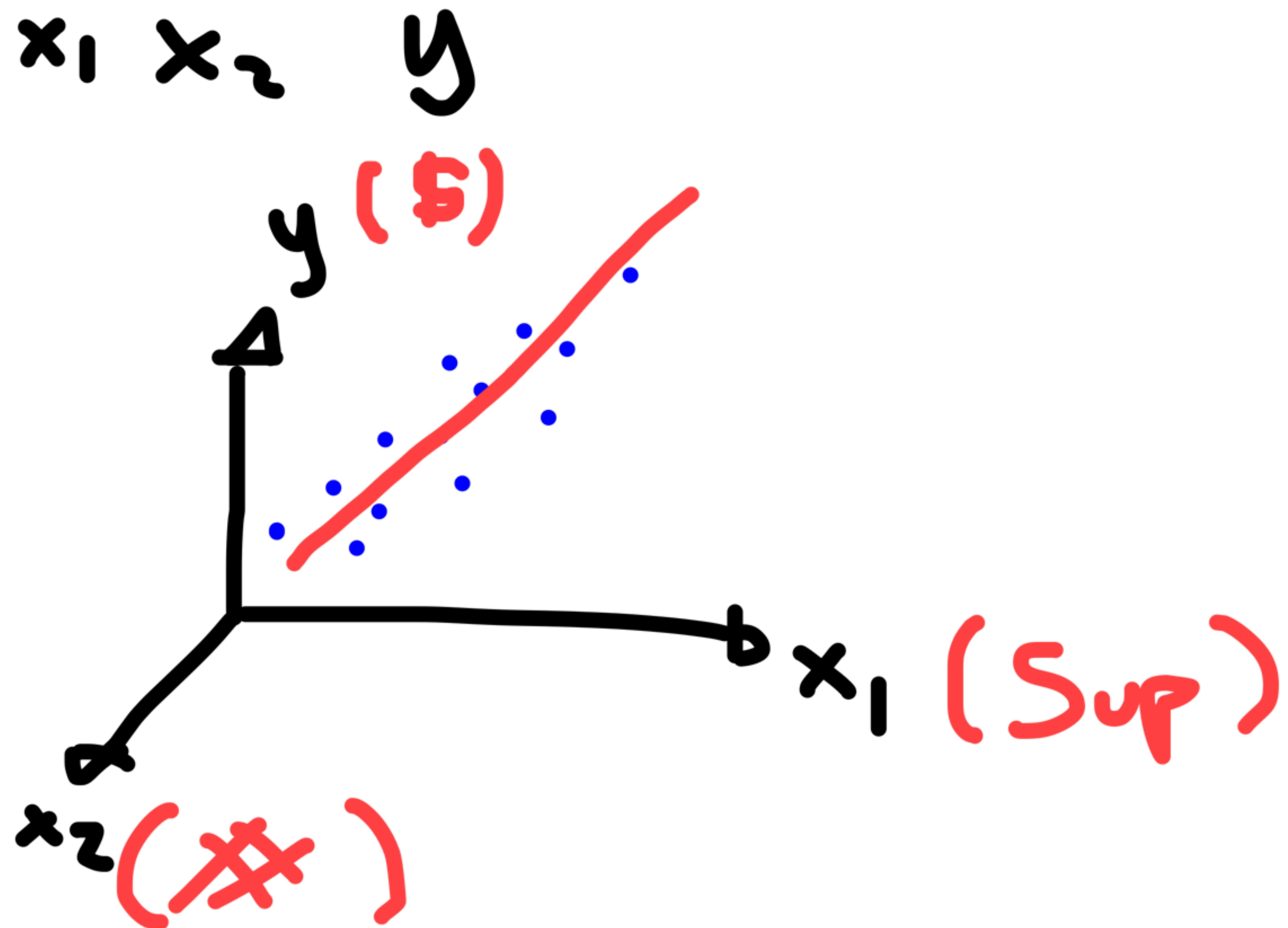
Inversa (-)


$$\frac{\text{Cov}(x_i, y_i)}{\sigma_x^2} \sum_i \frac{(x_i - \bar{x}_1)(y_i - \bar{y}_2)}{\sigma_y^2}$$

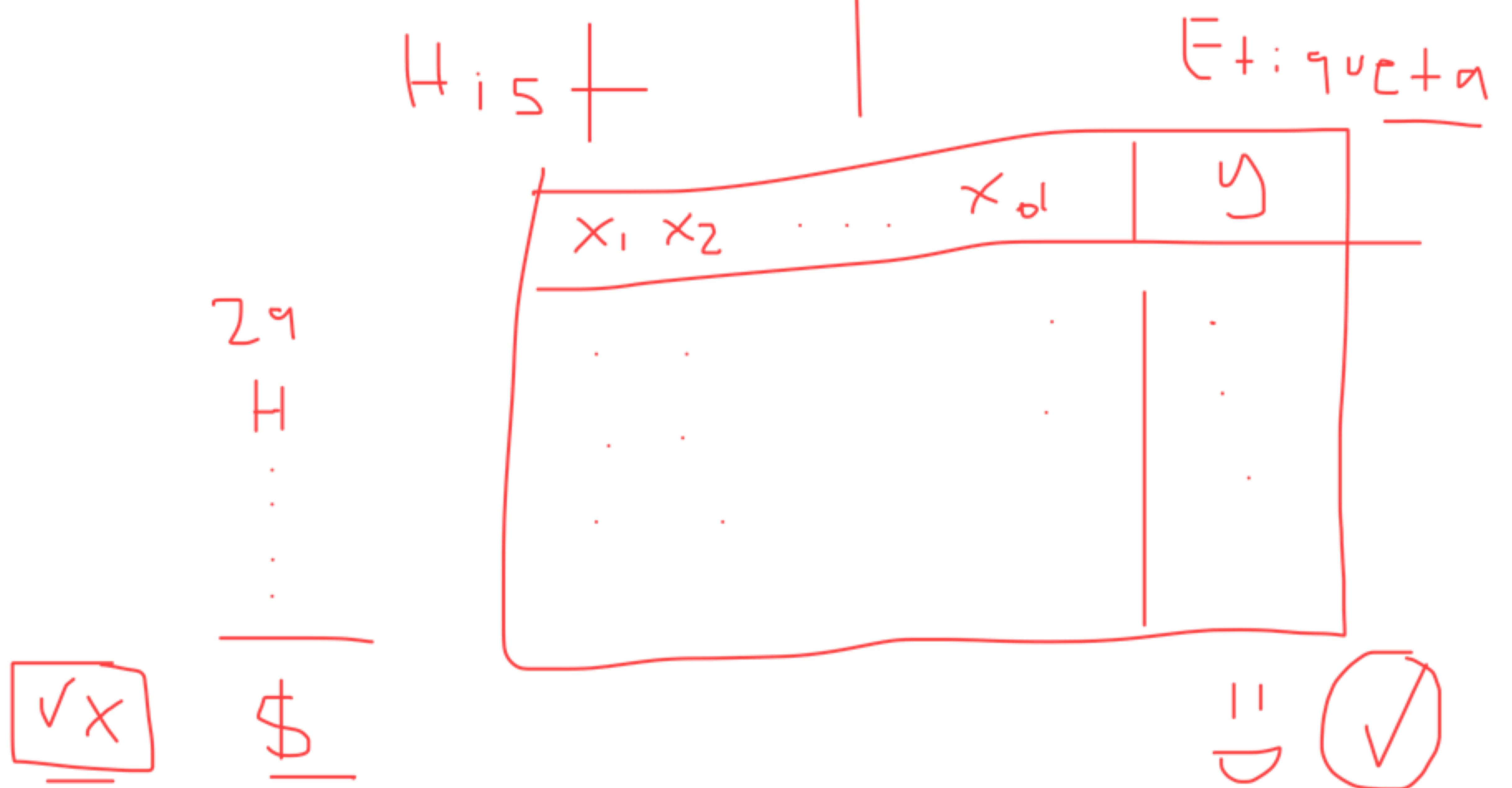
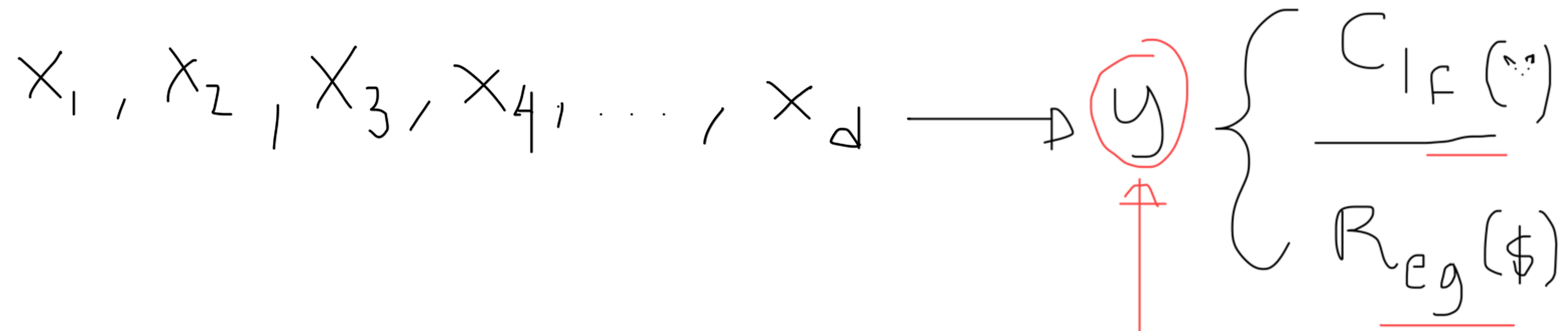
nula (0)


$m \approx 0$ $m = \pm \infty$

Regresión Múltiple

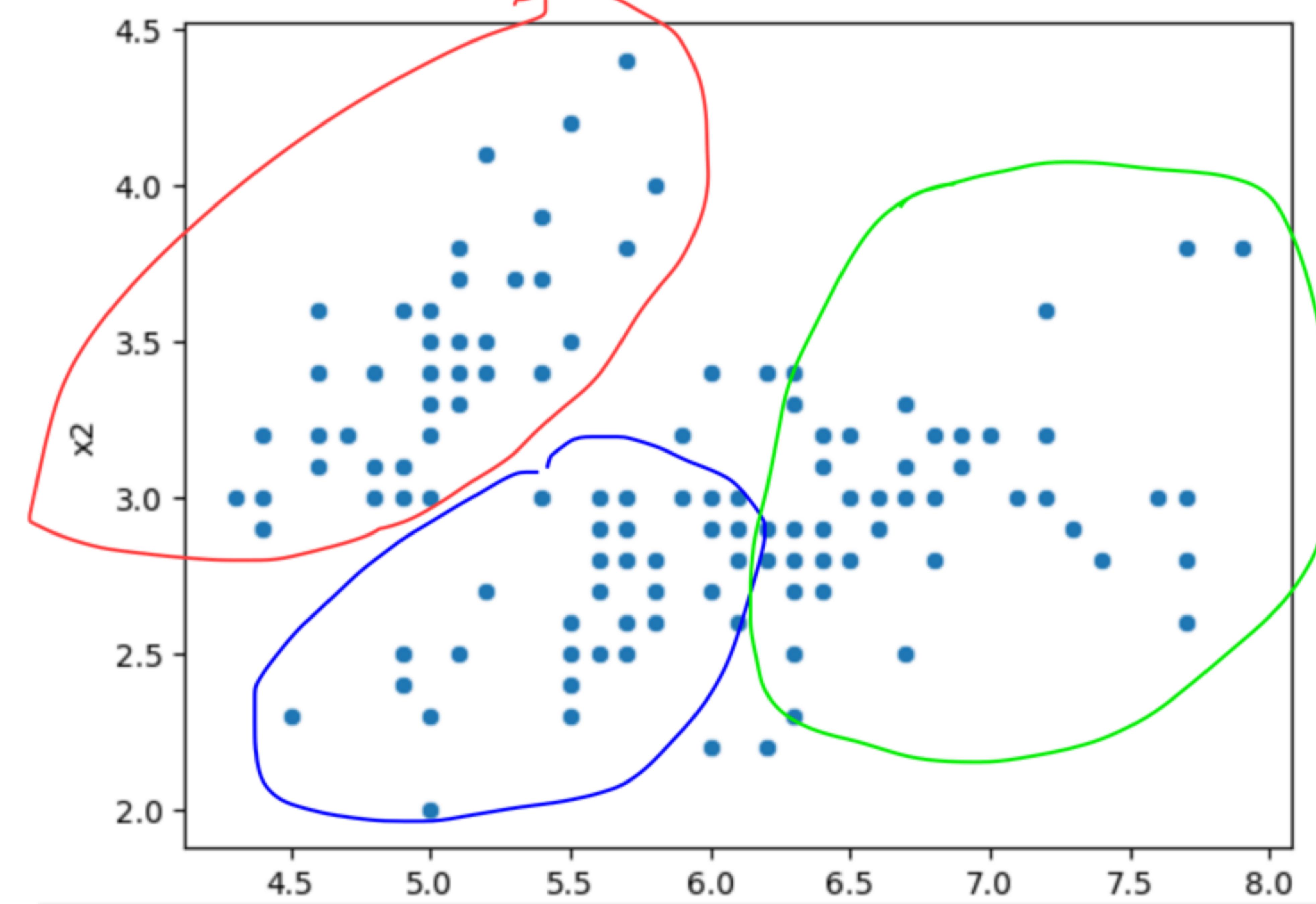
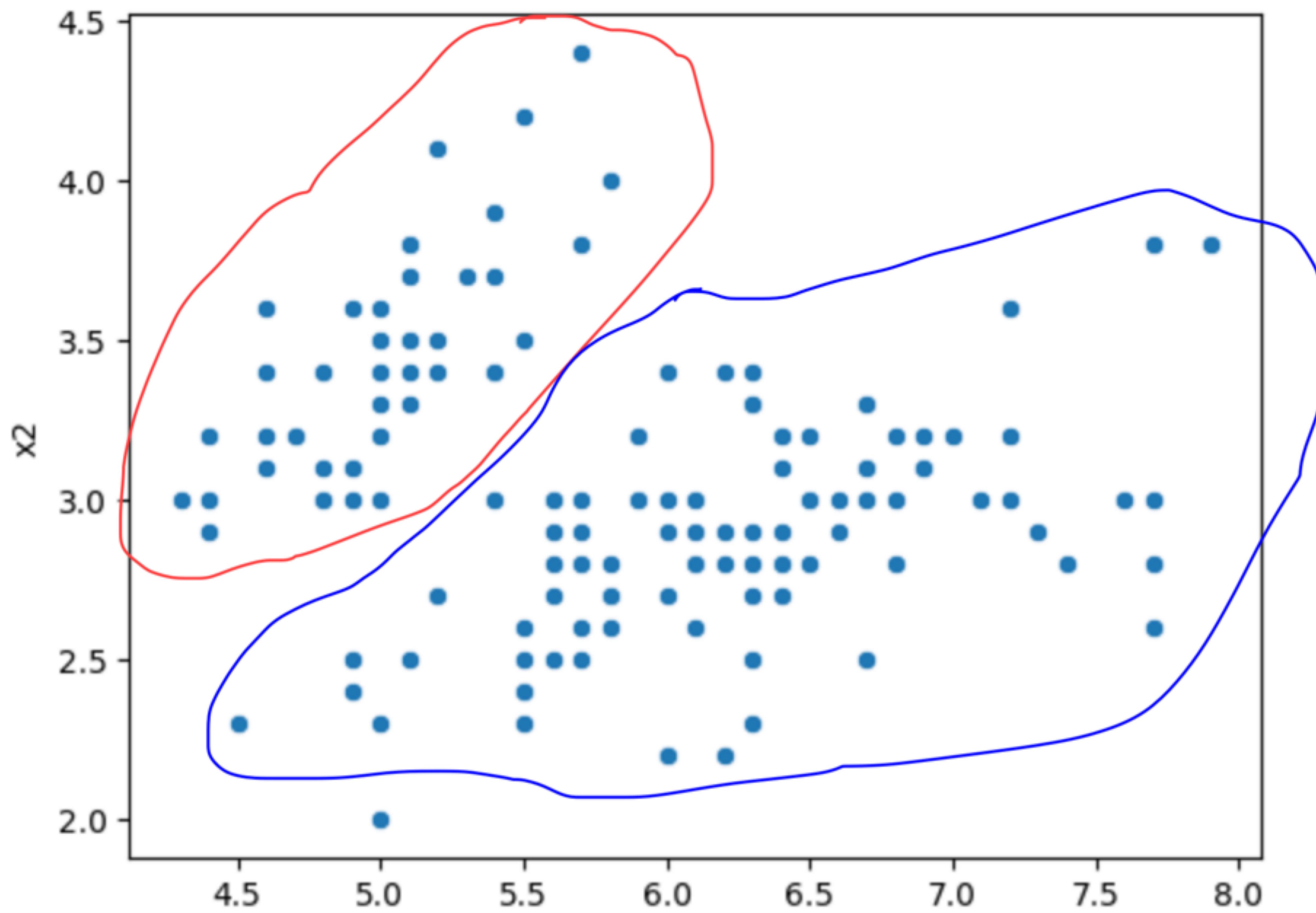


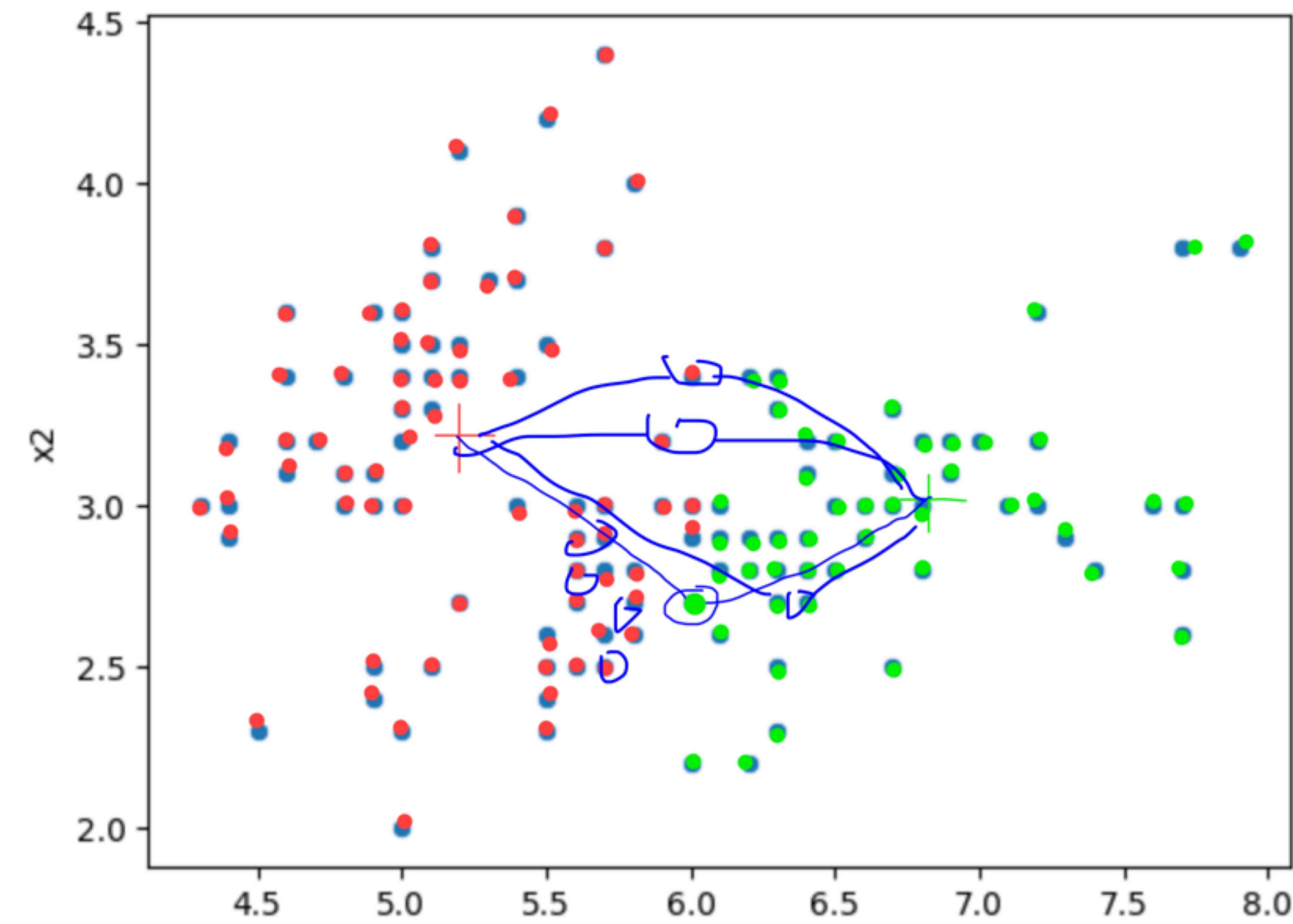
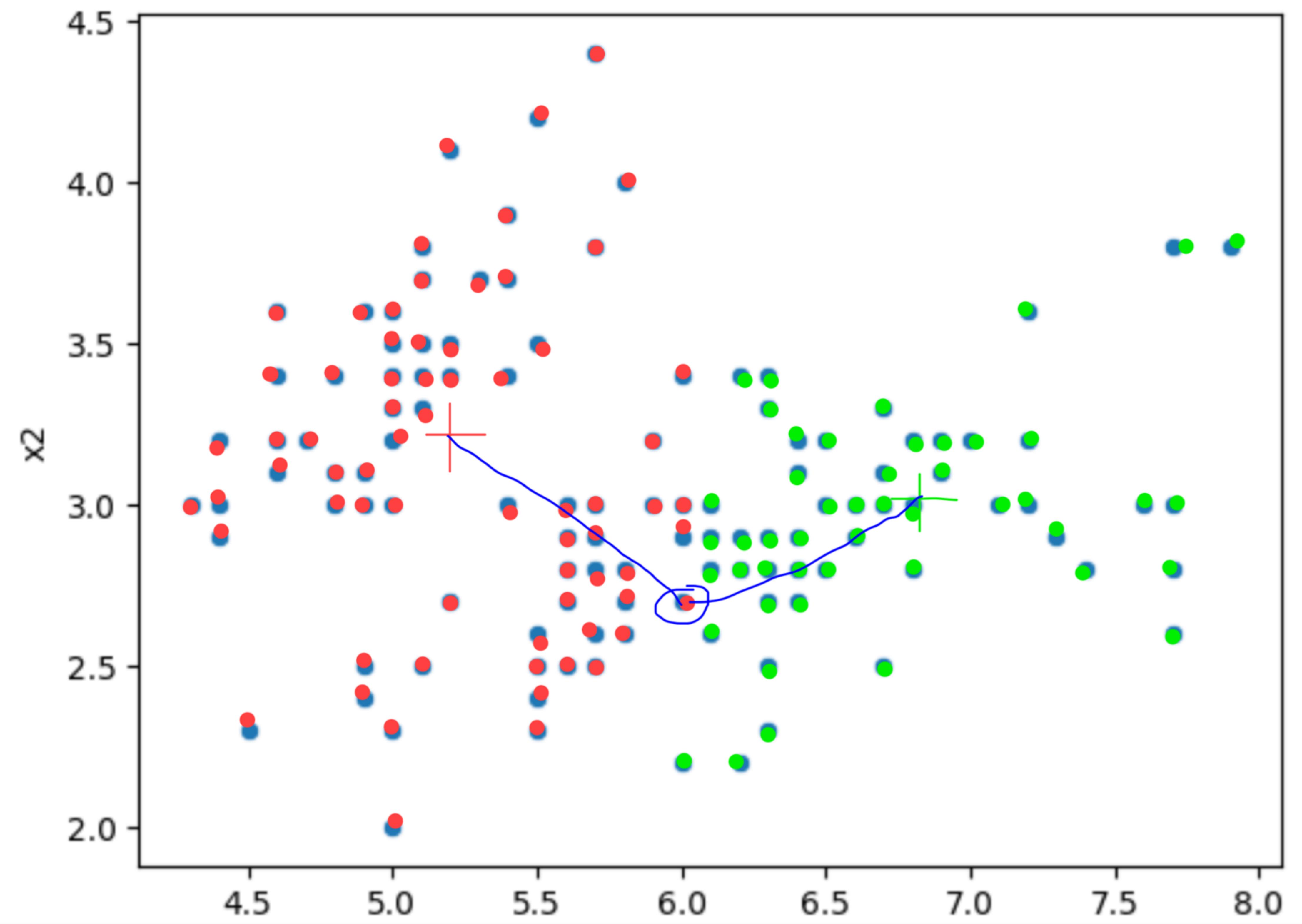


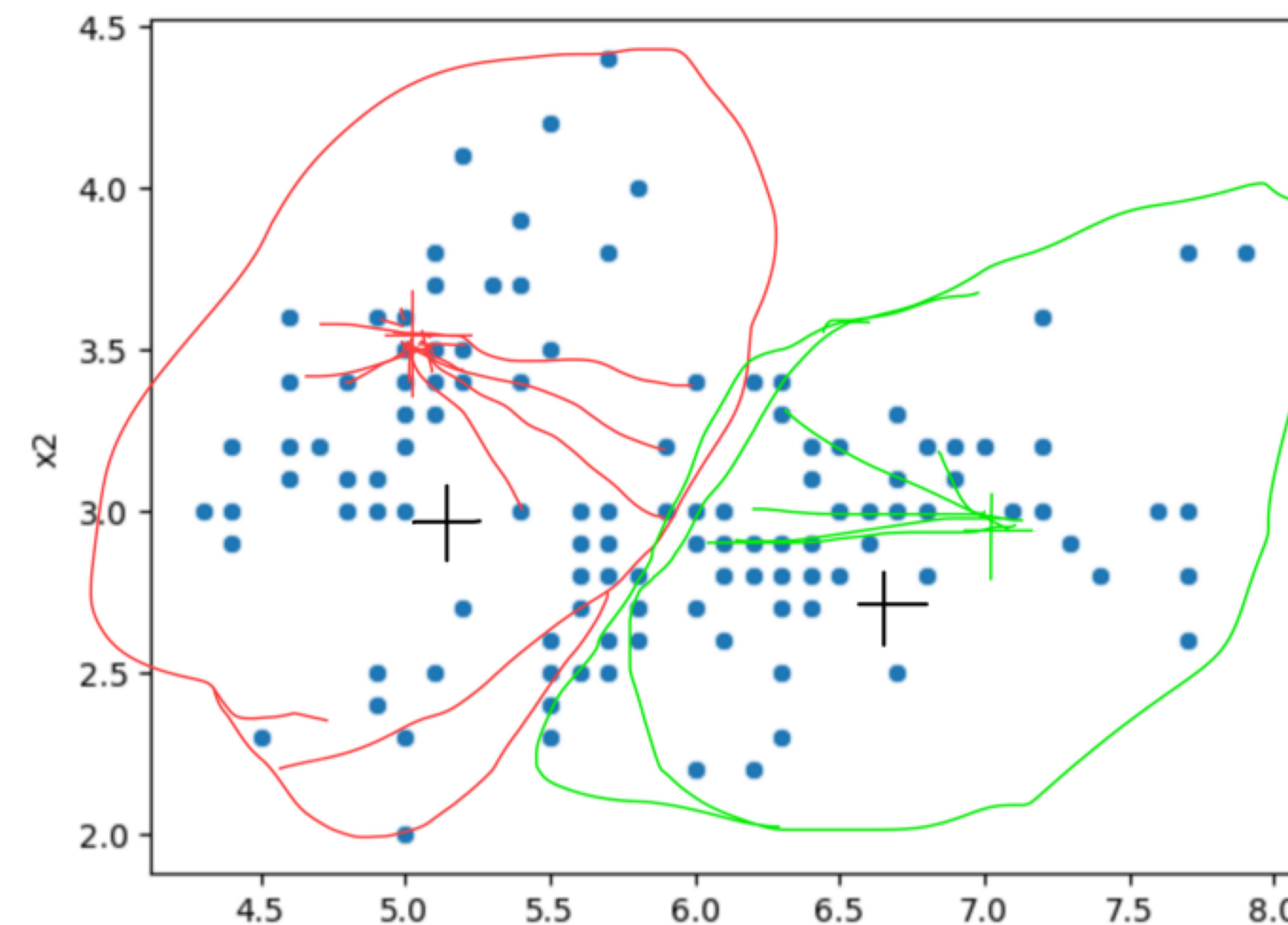
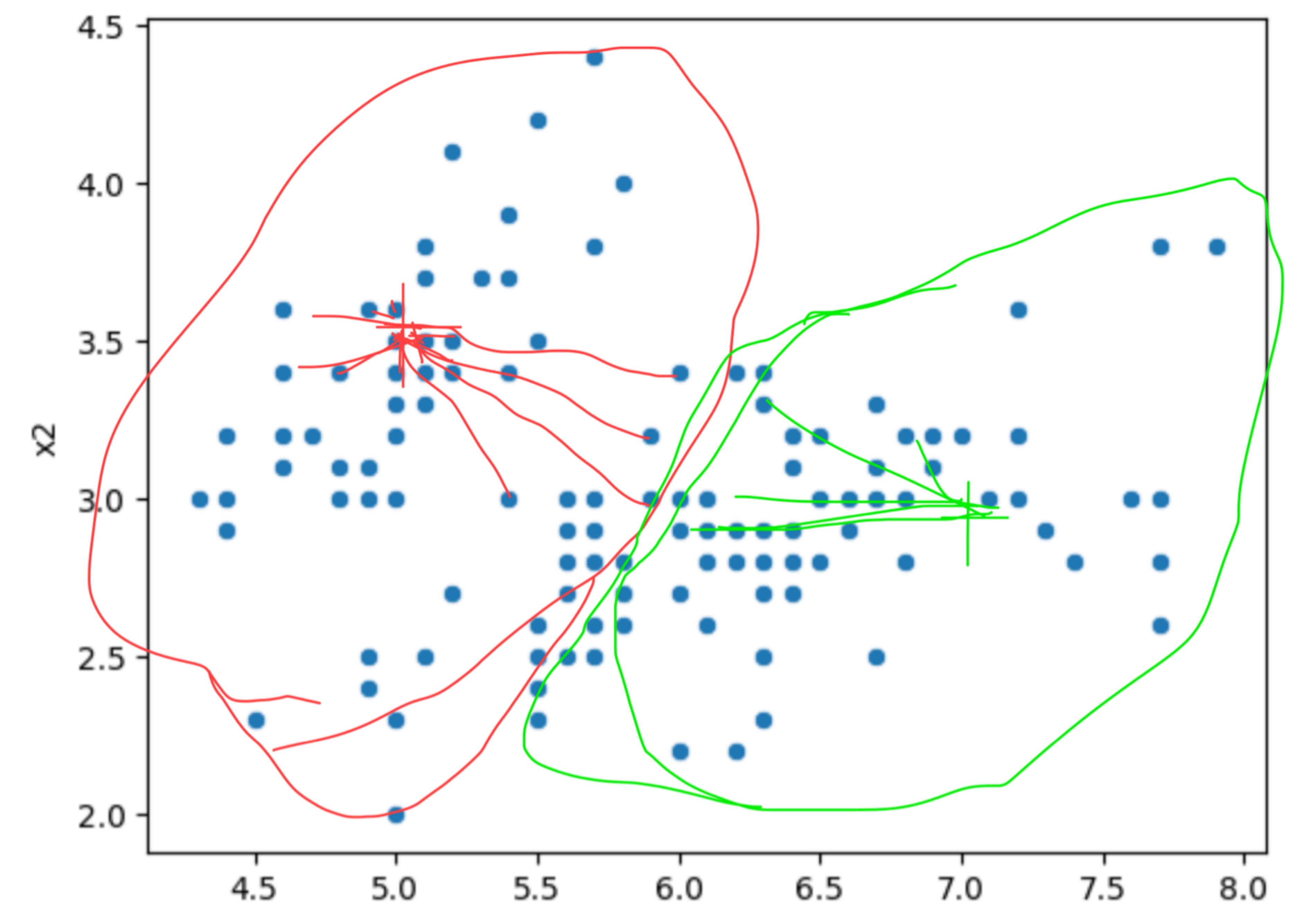


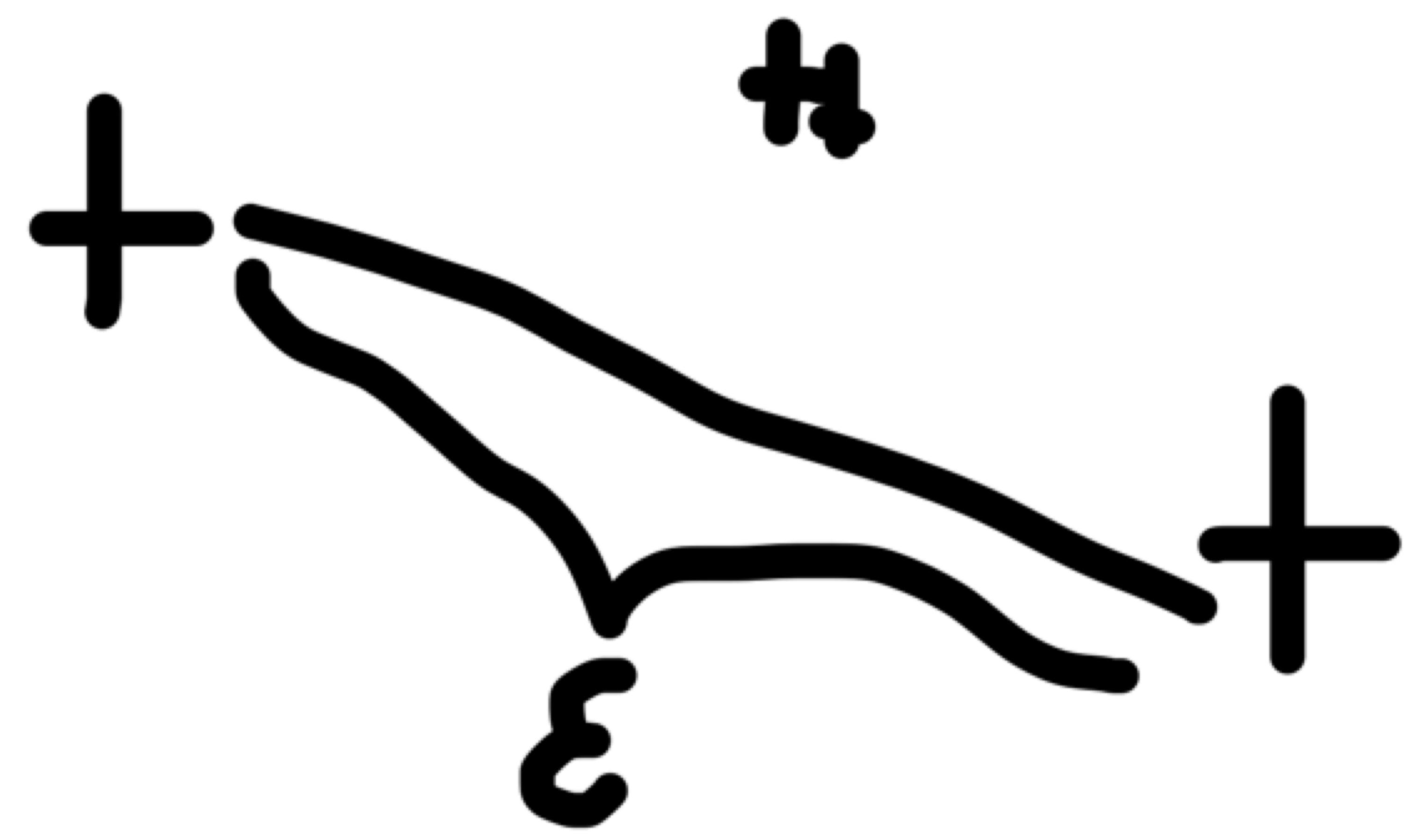
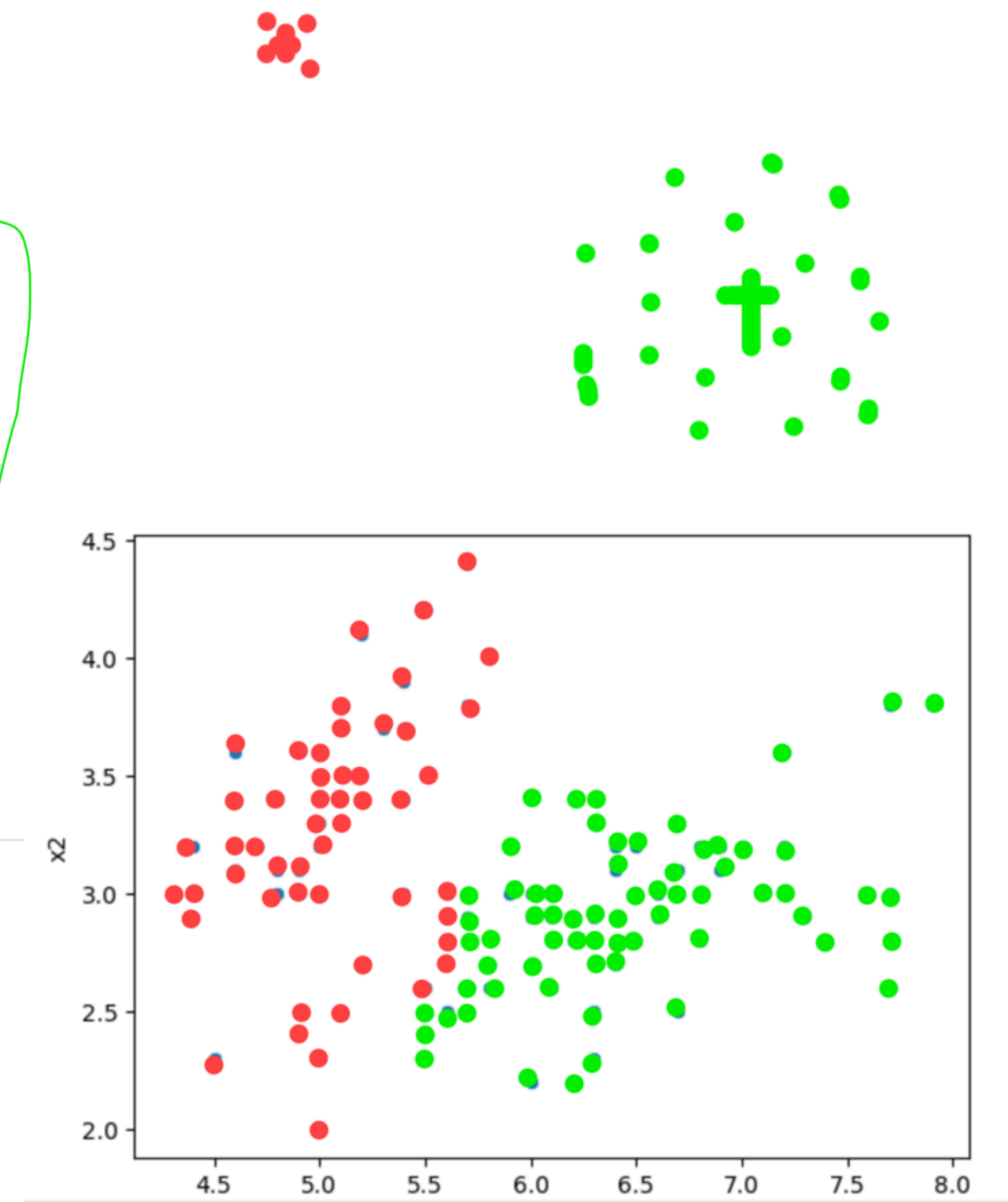
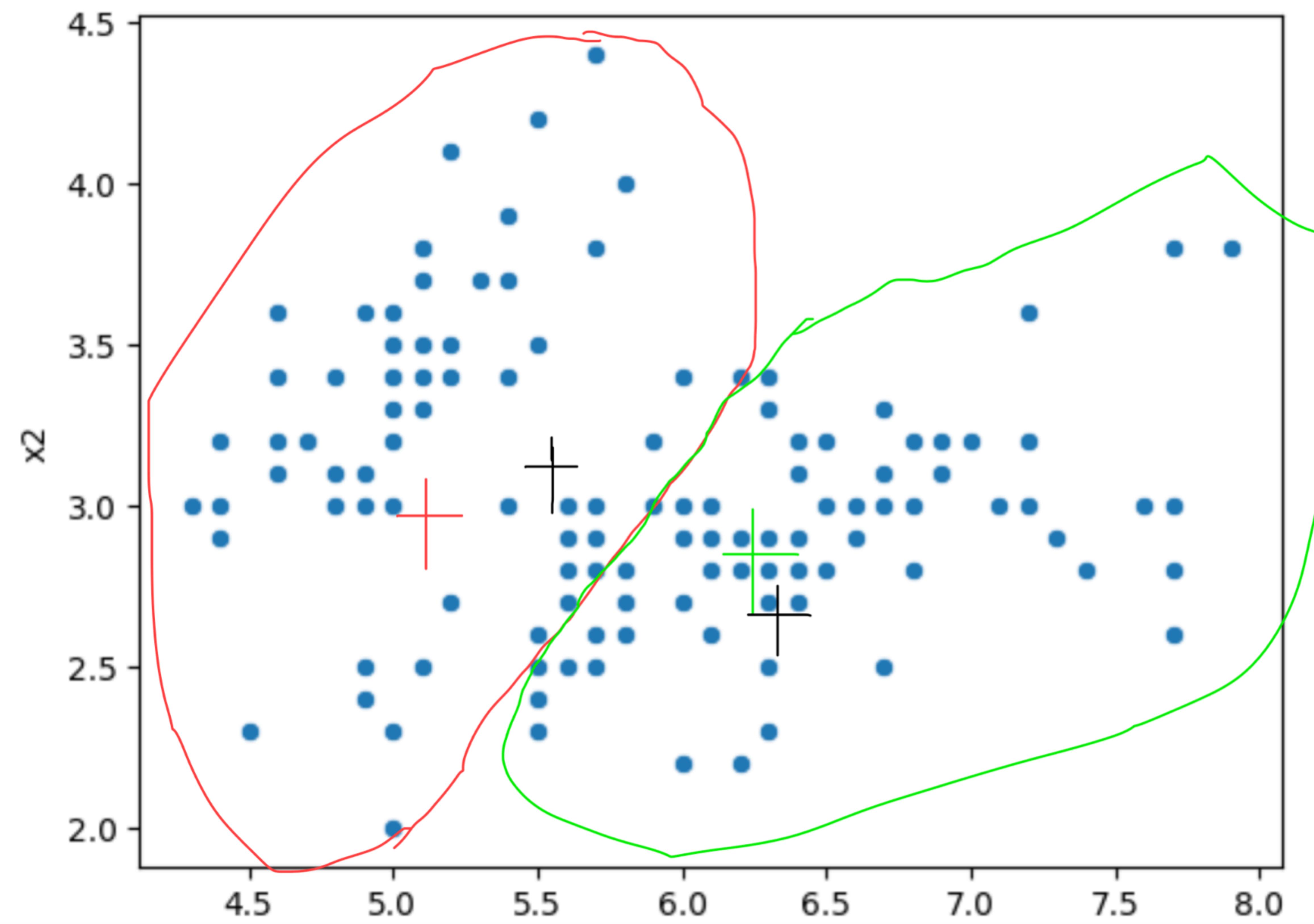


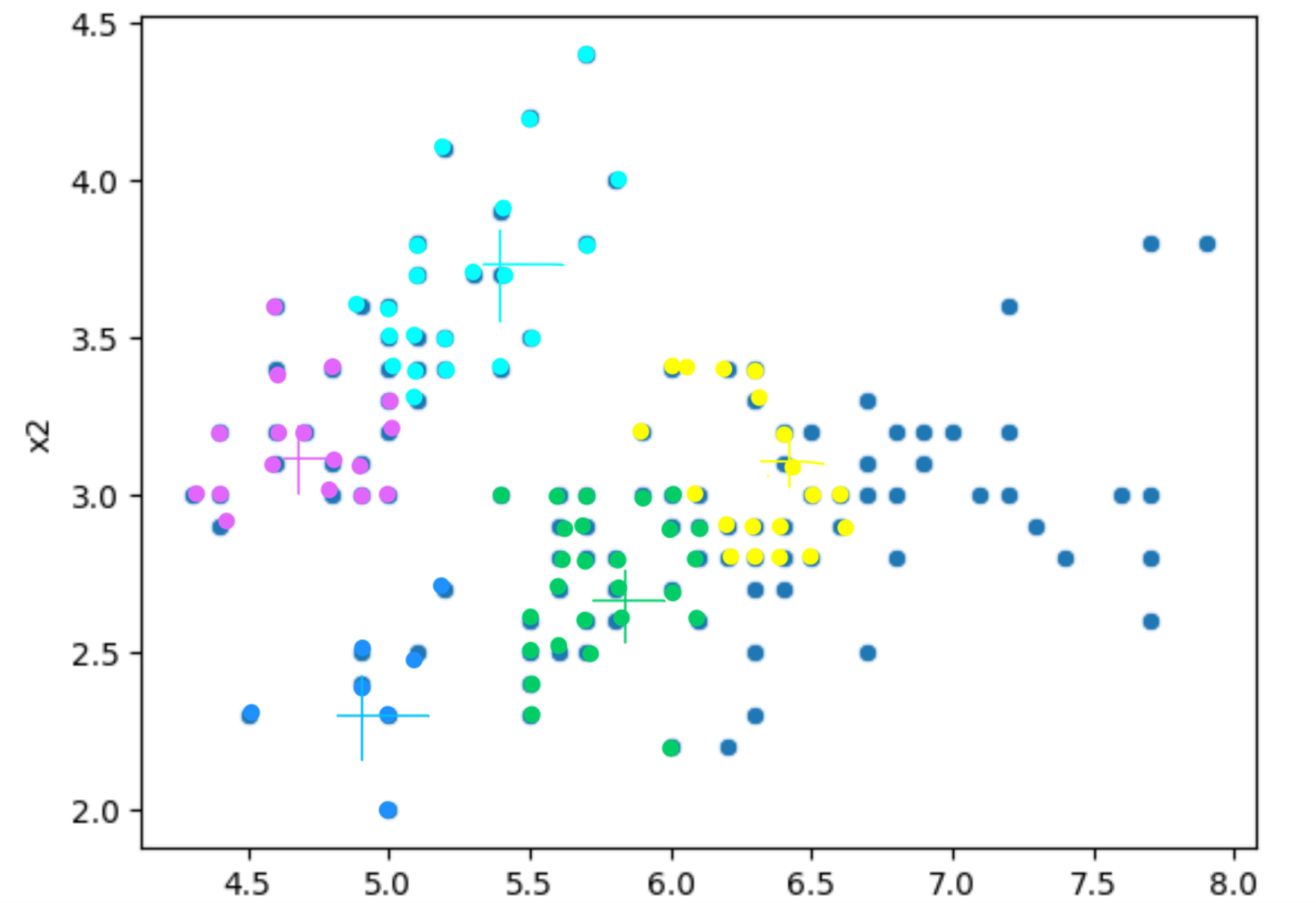
x_1, x_2, \dots, x_d







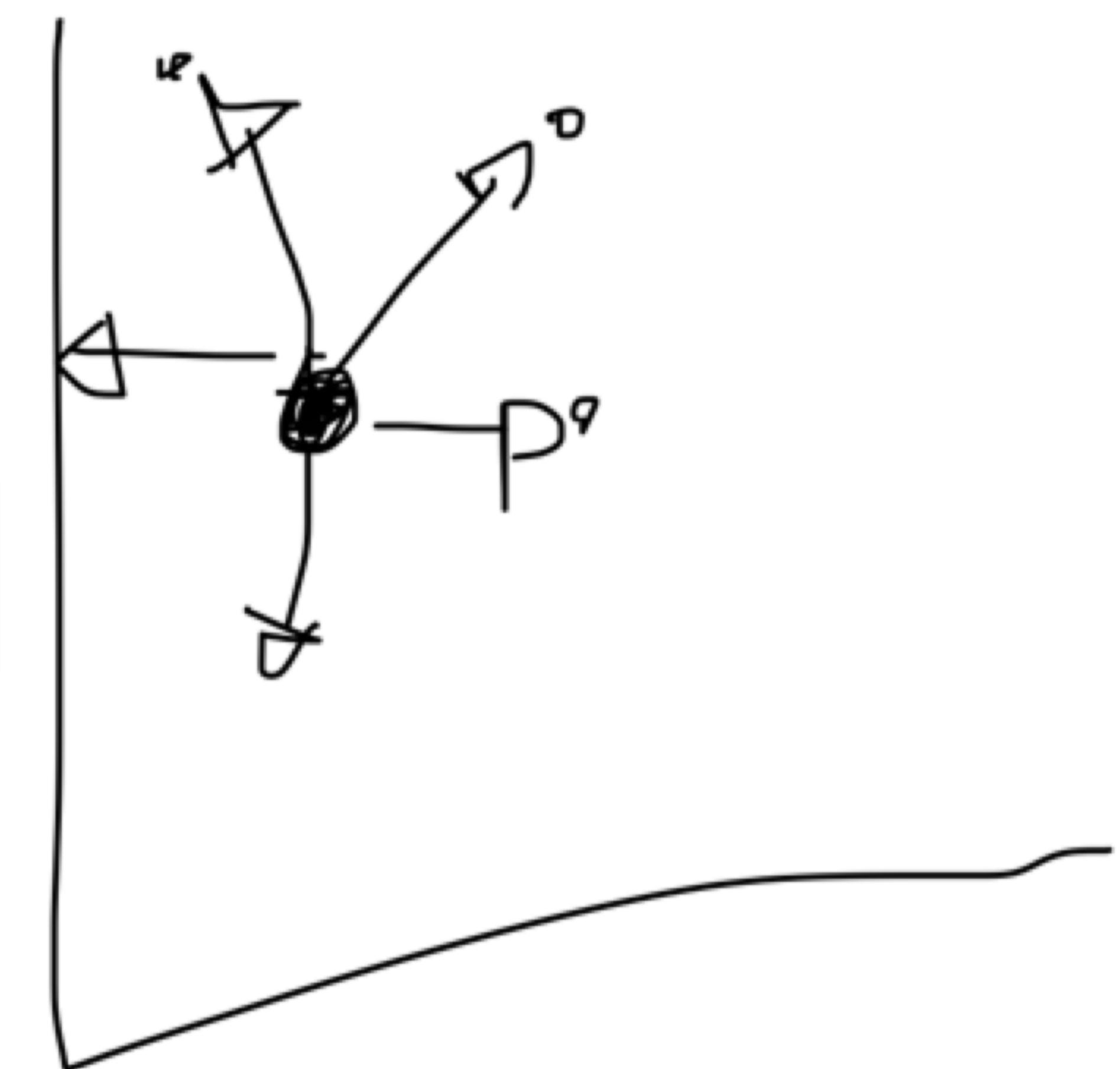
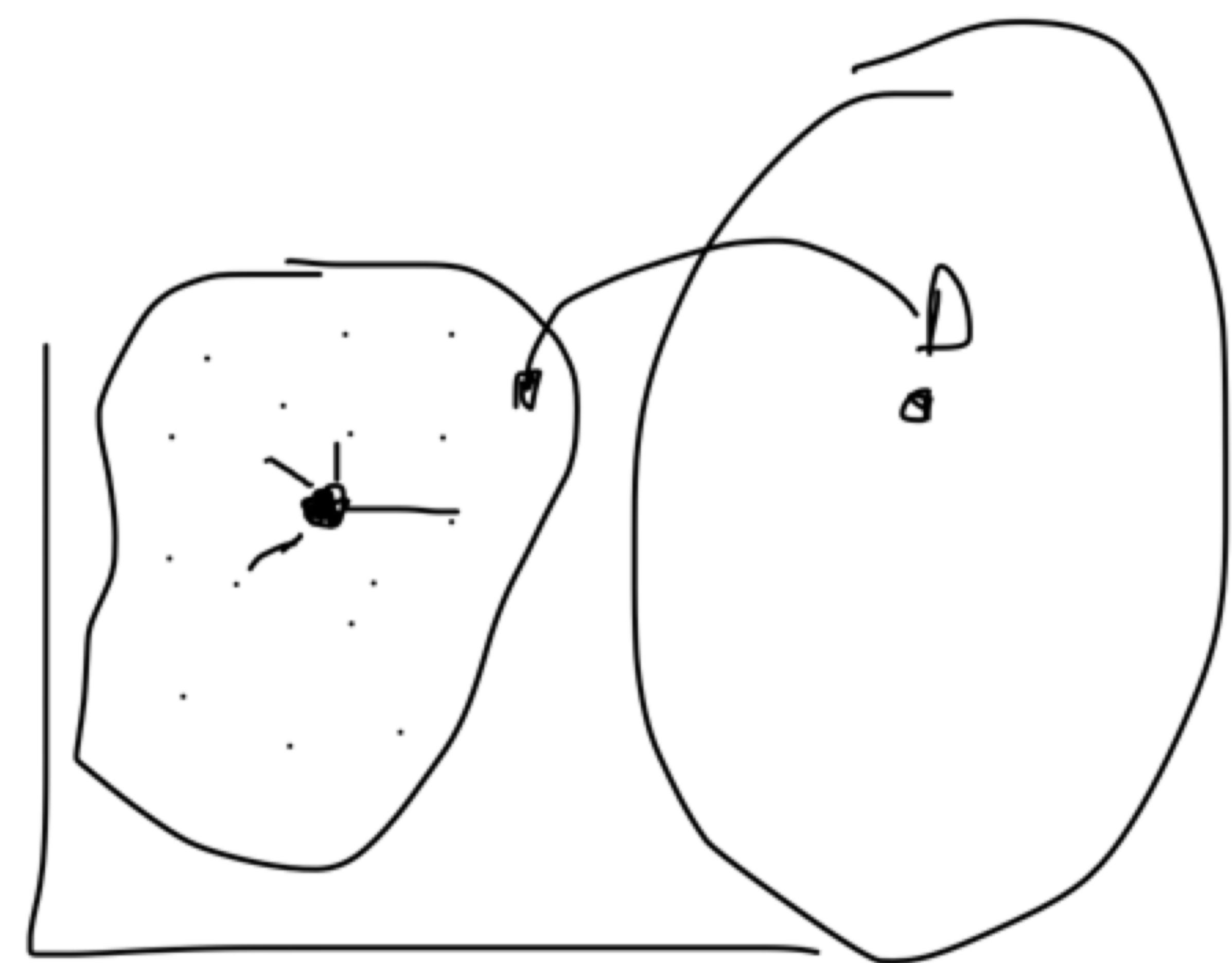


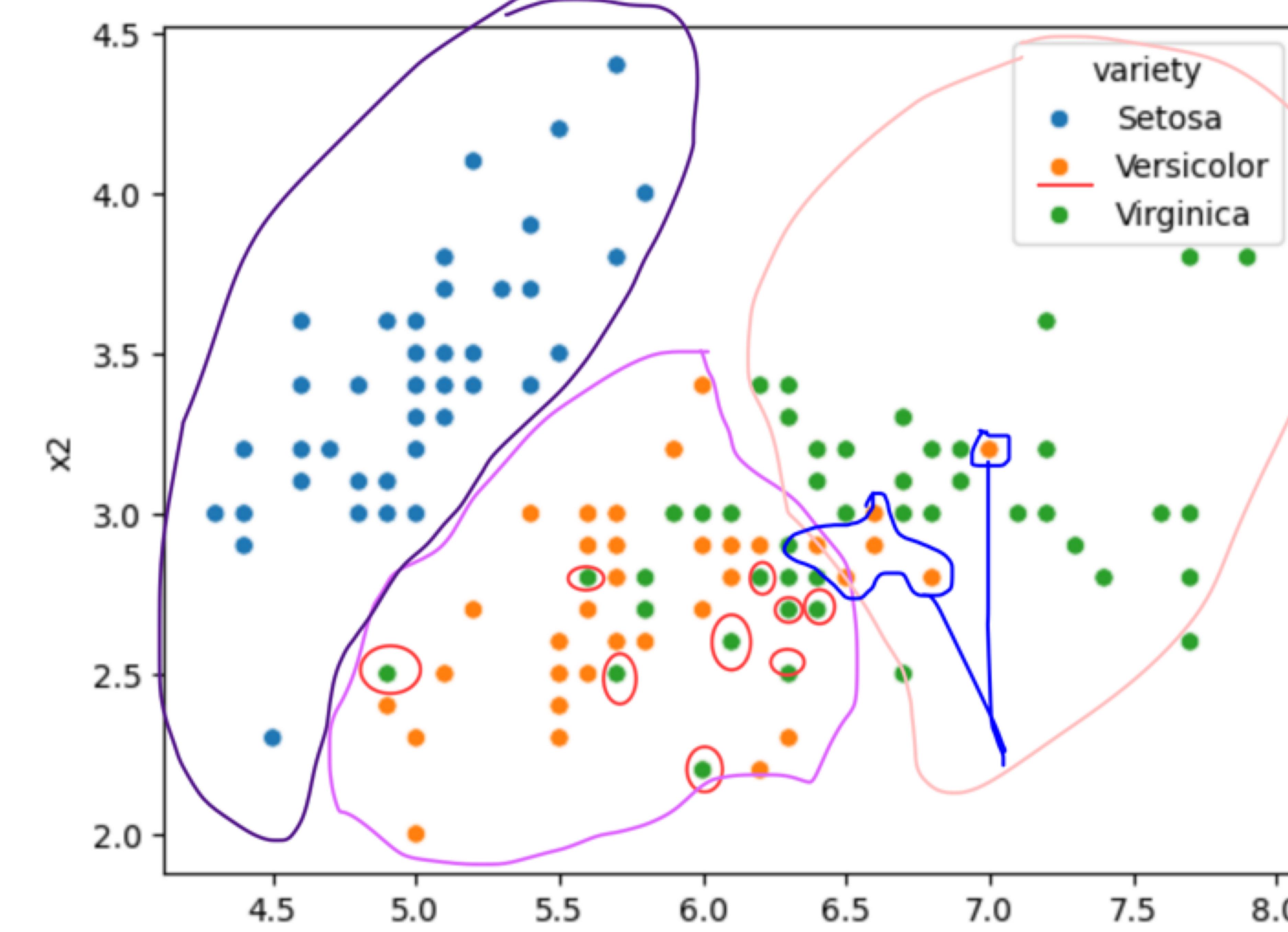
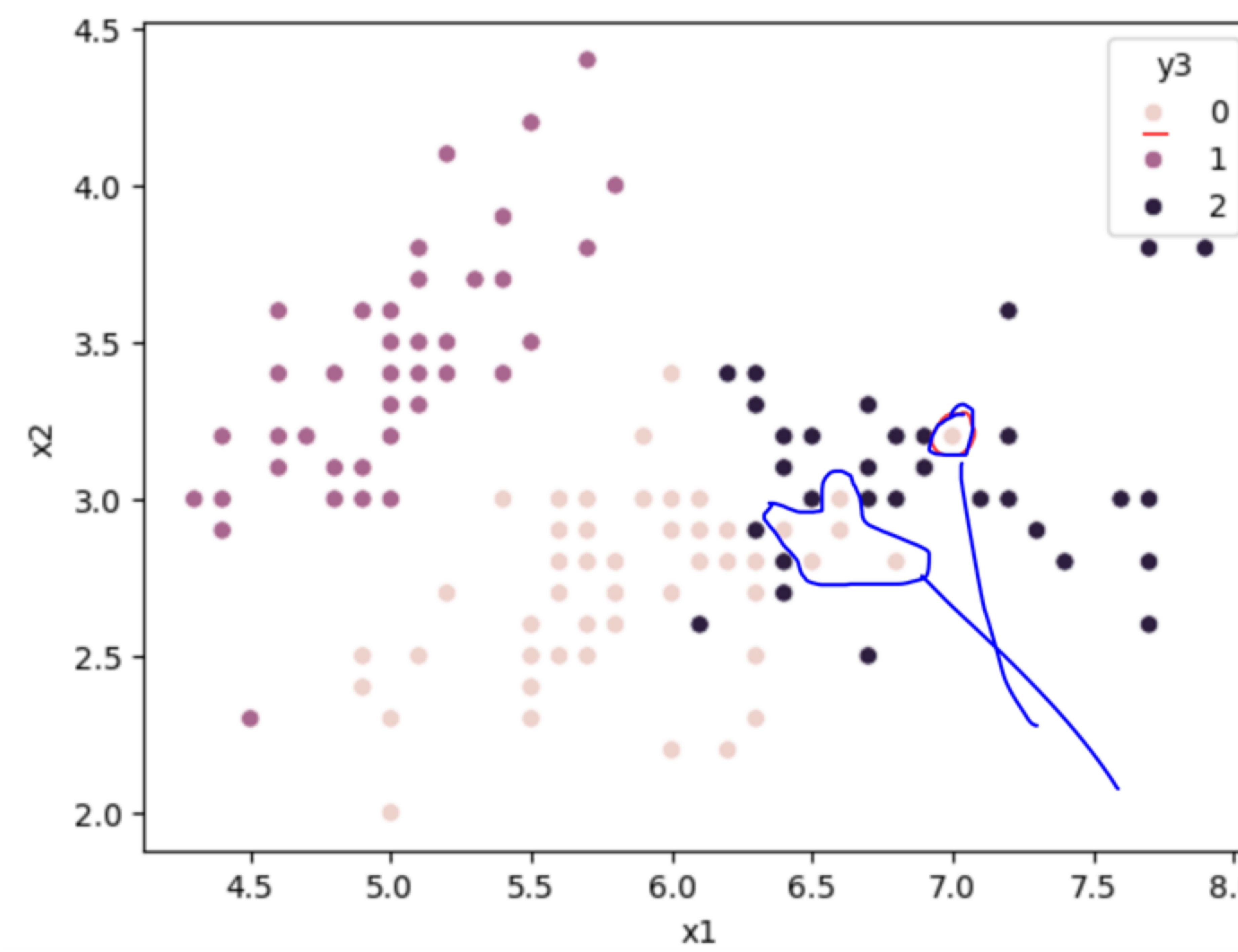
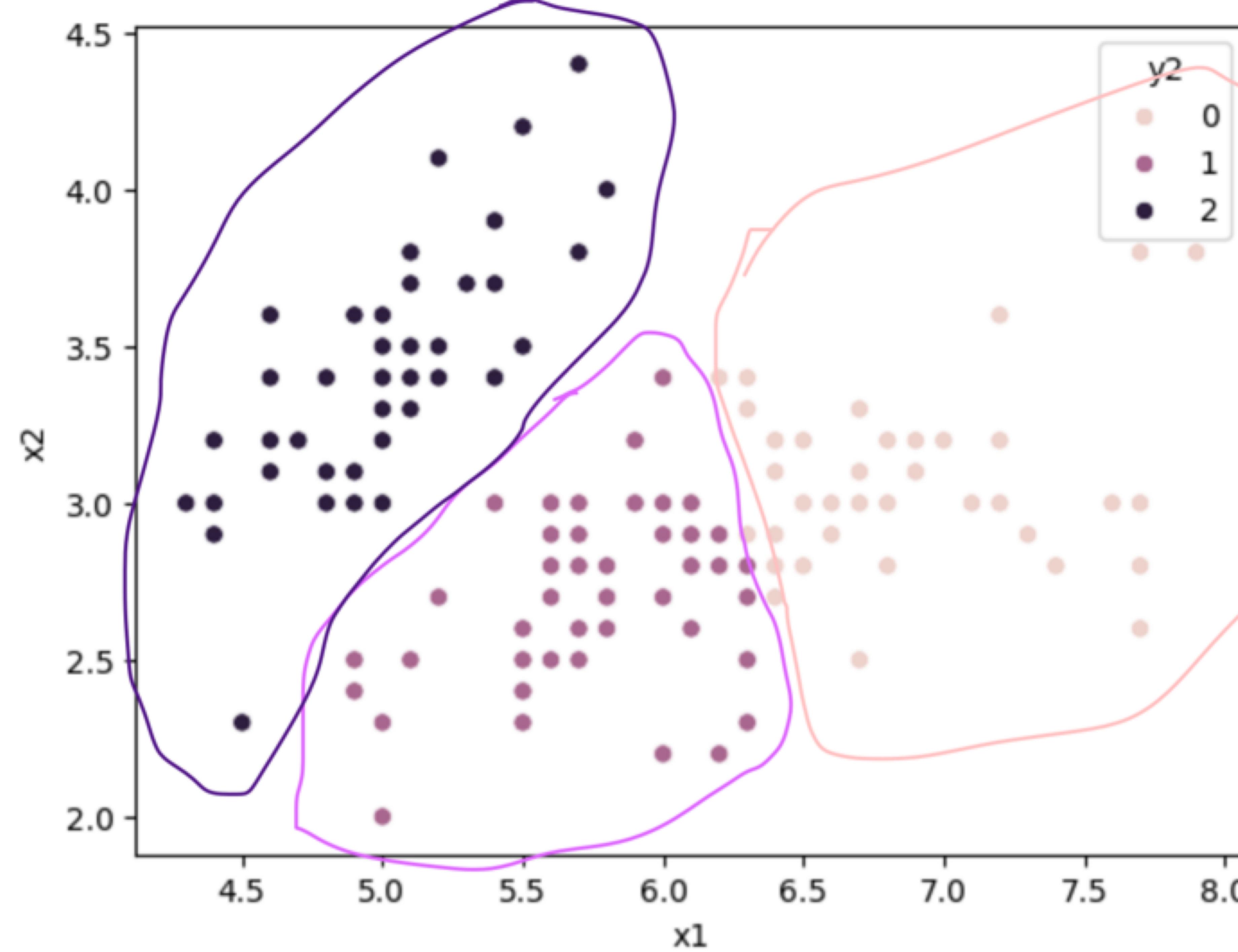


K — means

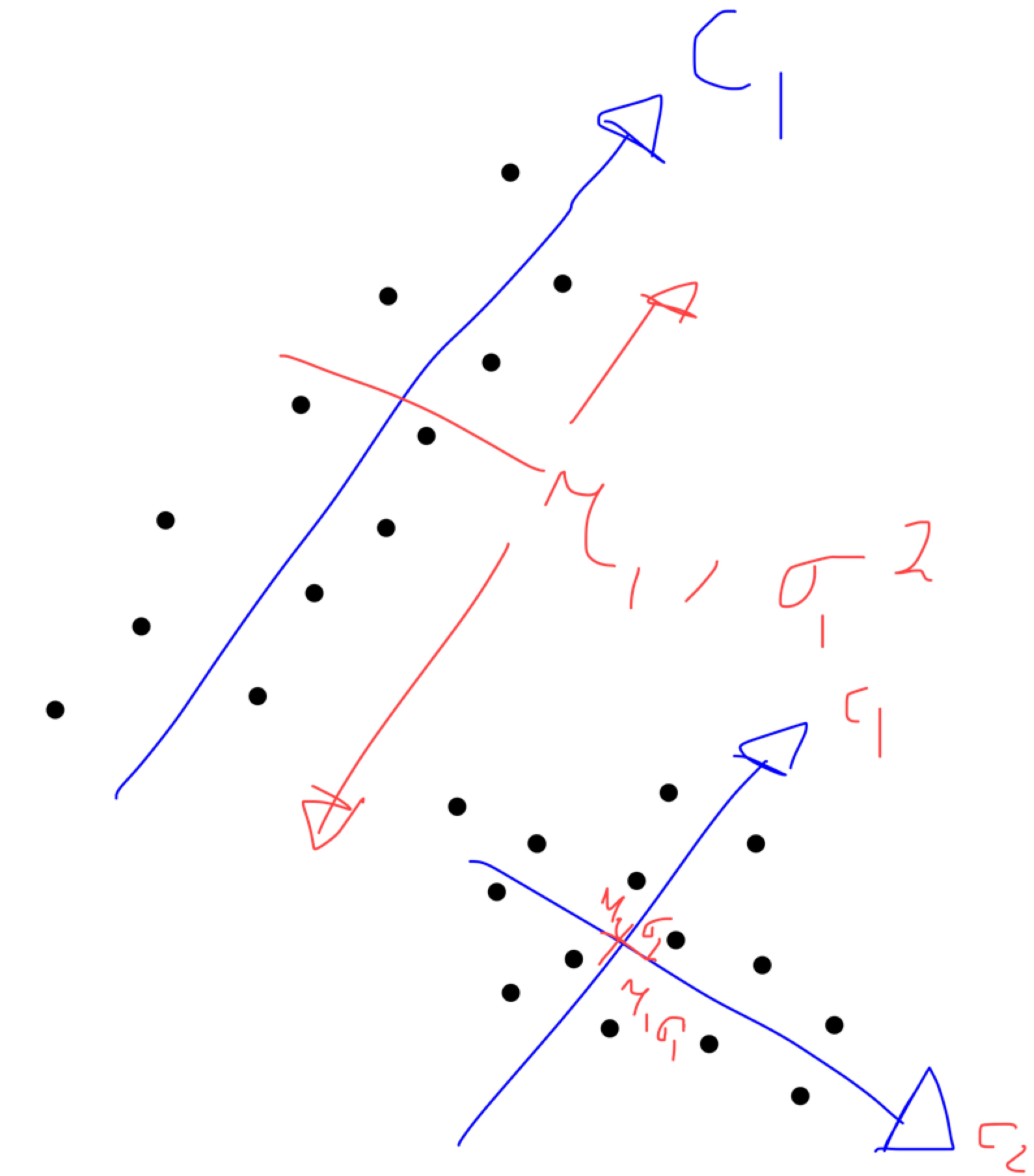
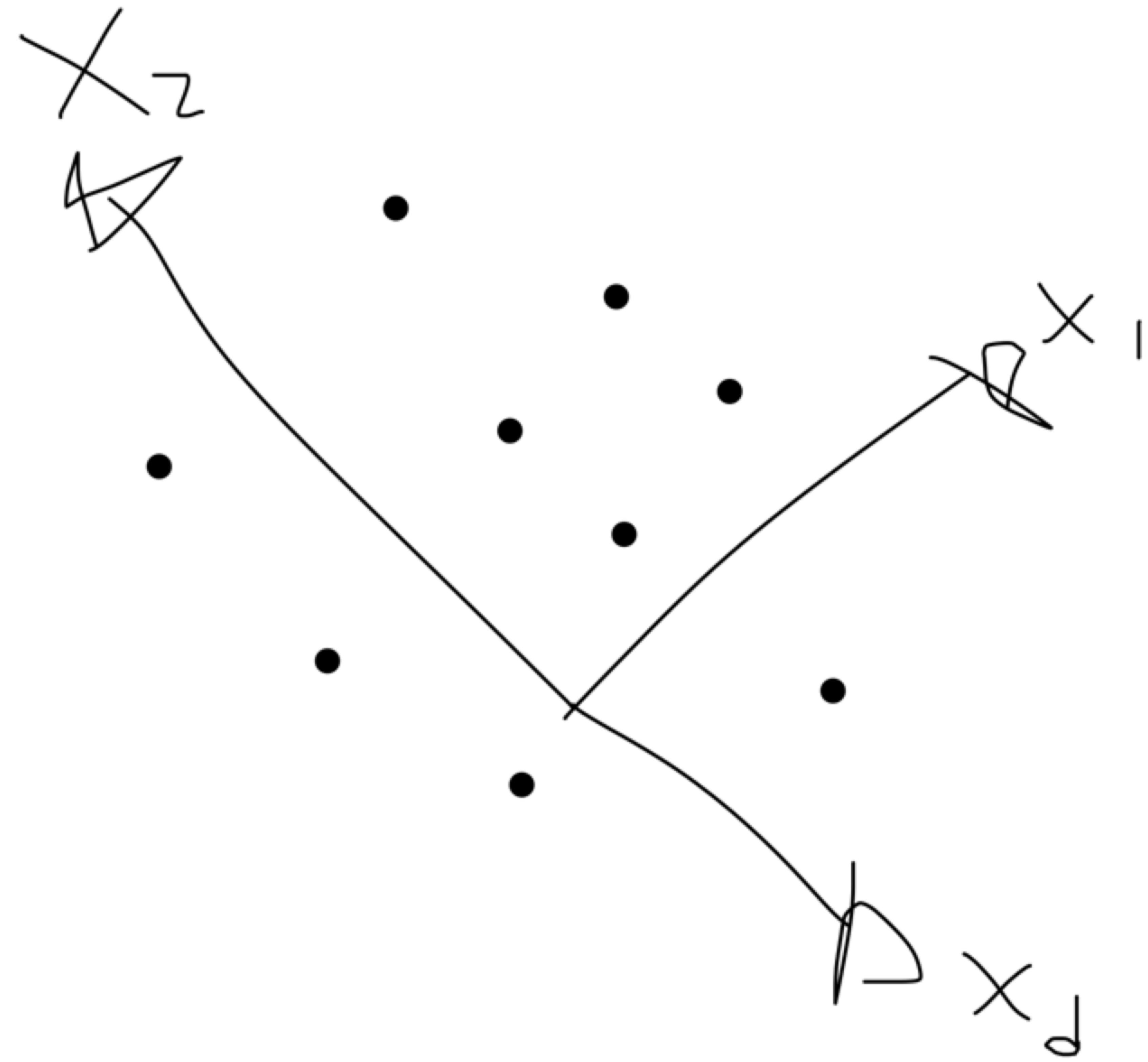
K — neighbors

Affinity

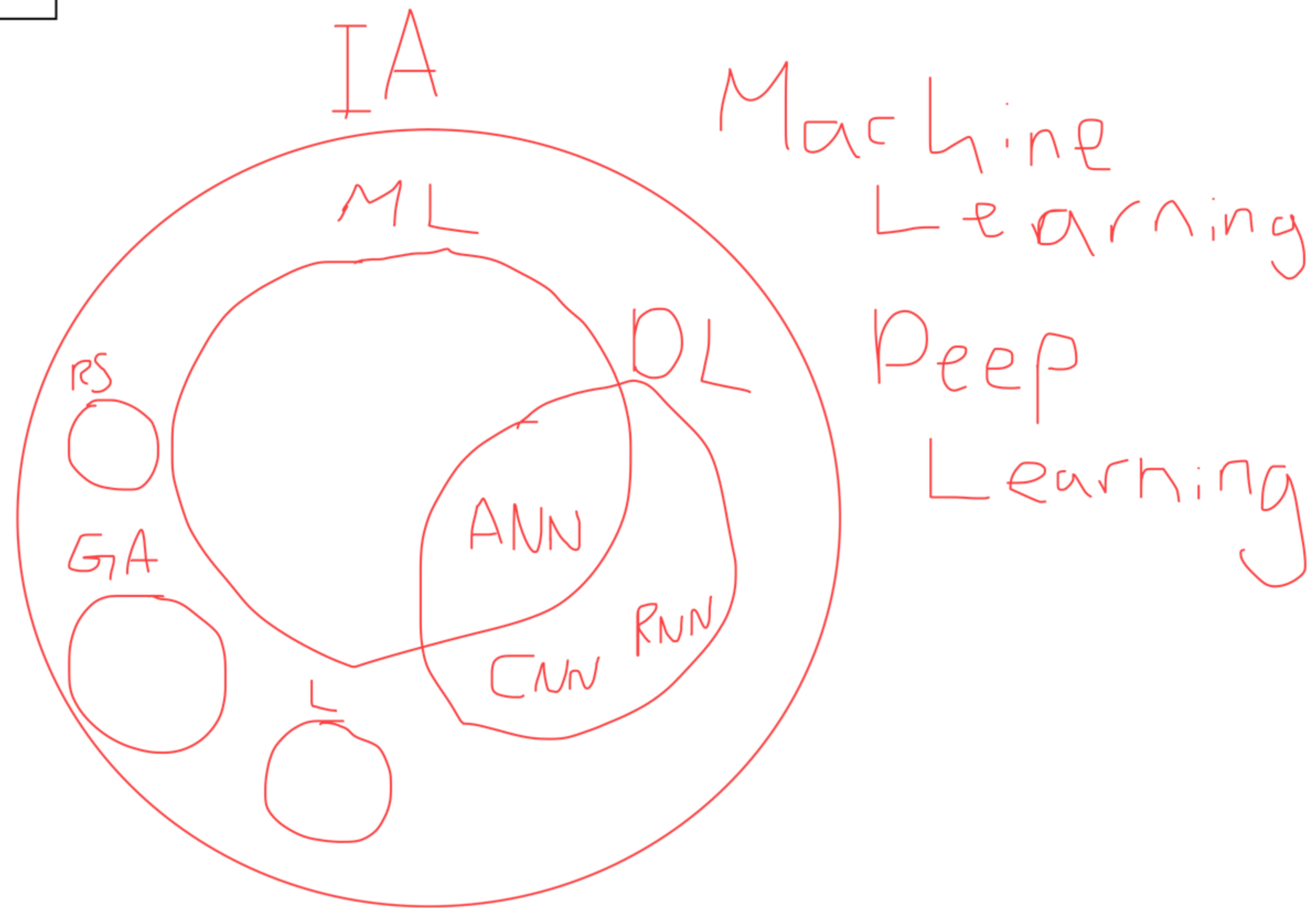





Reducción de
Dimensionalidad (PCA)



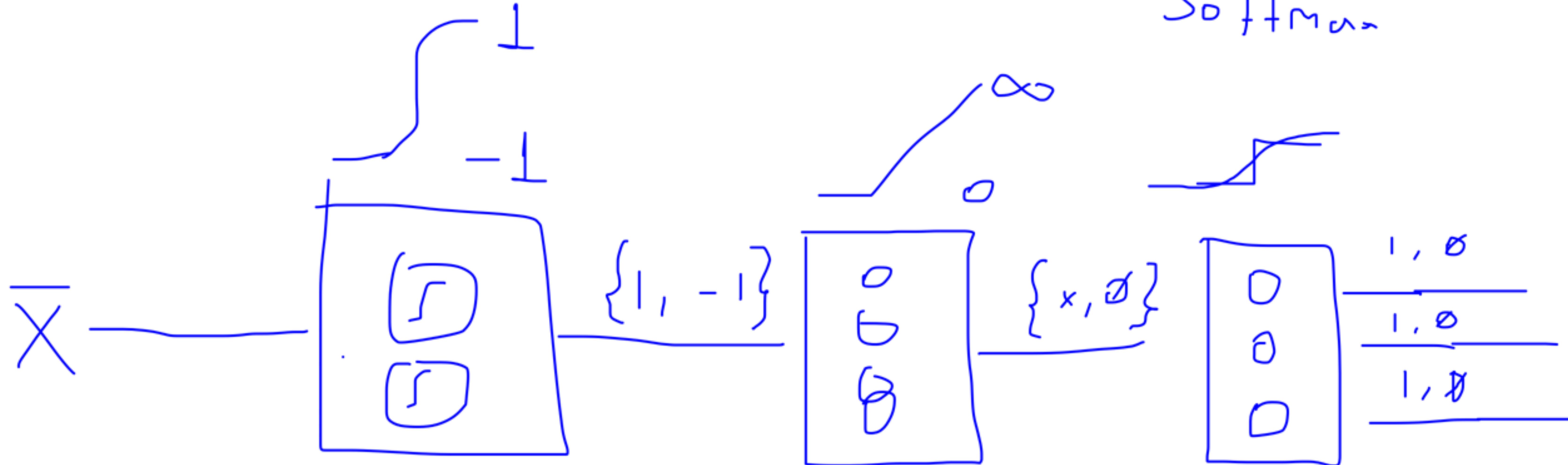
Inteligencia Artificial



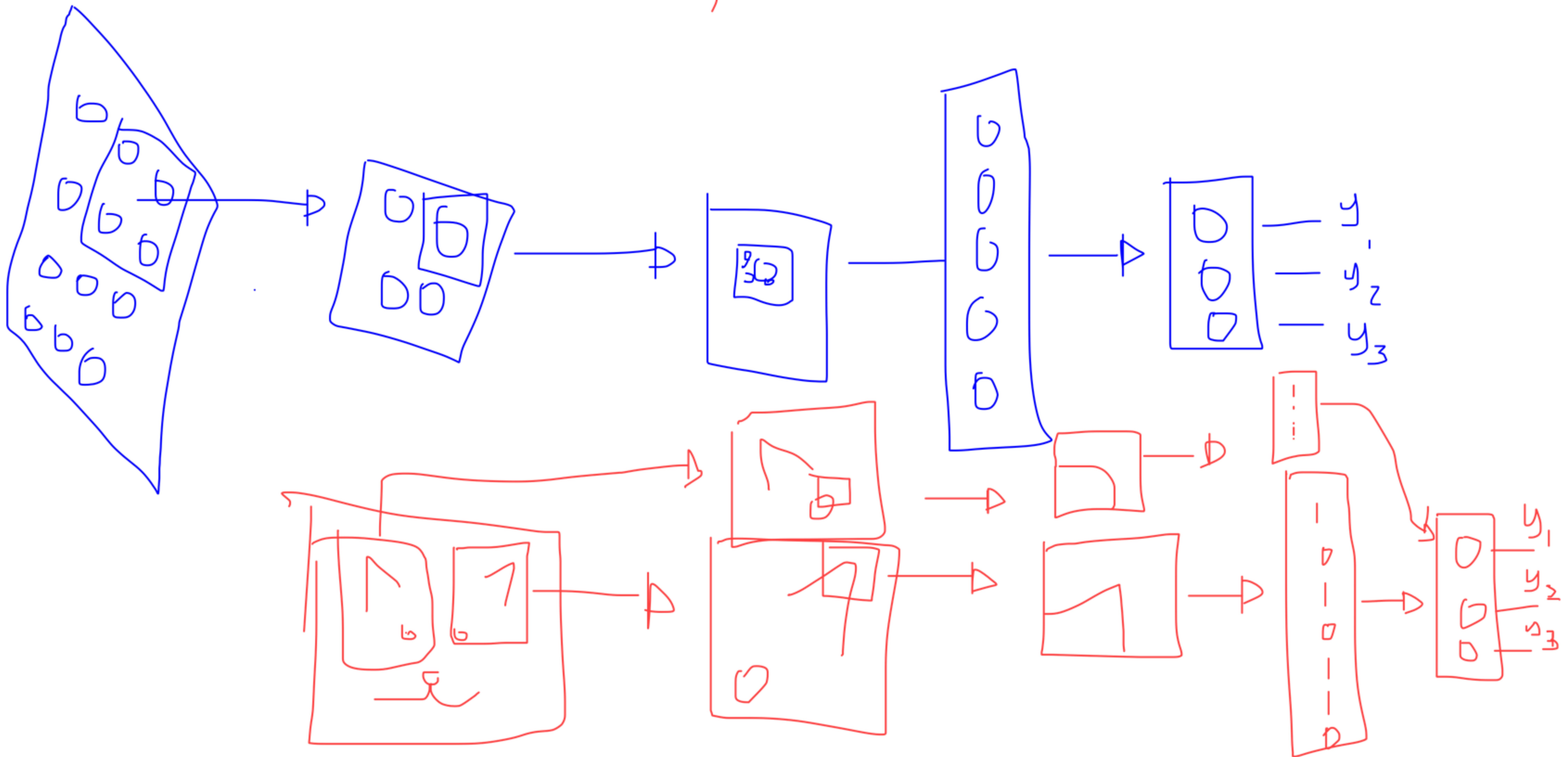


$$\frac{e^x - e^{-x}}{e^x + e^{-x}}$$

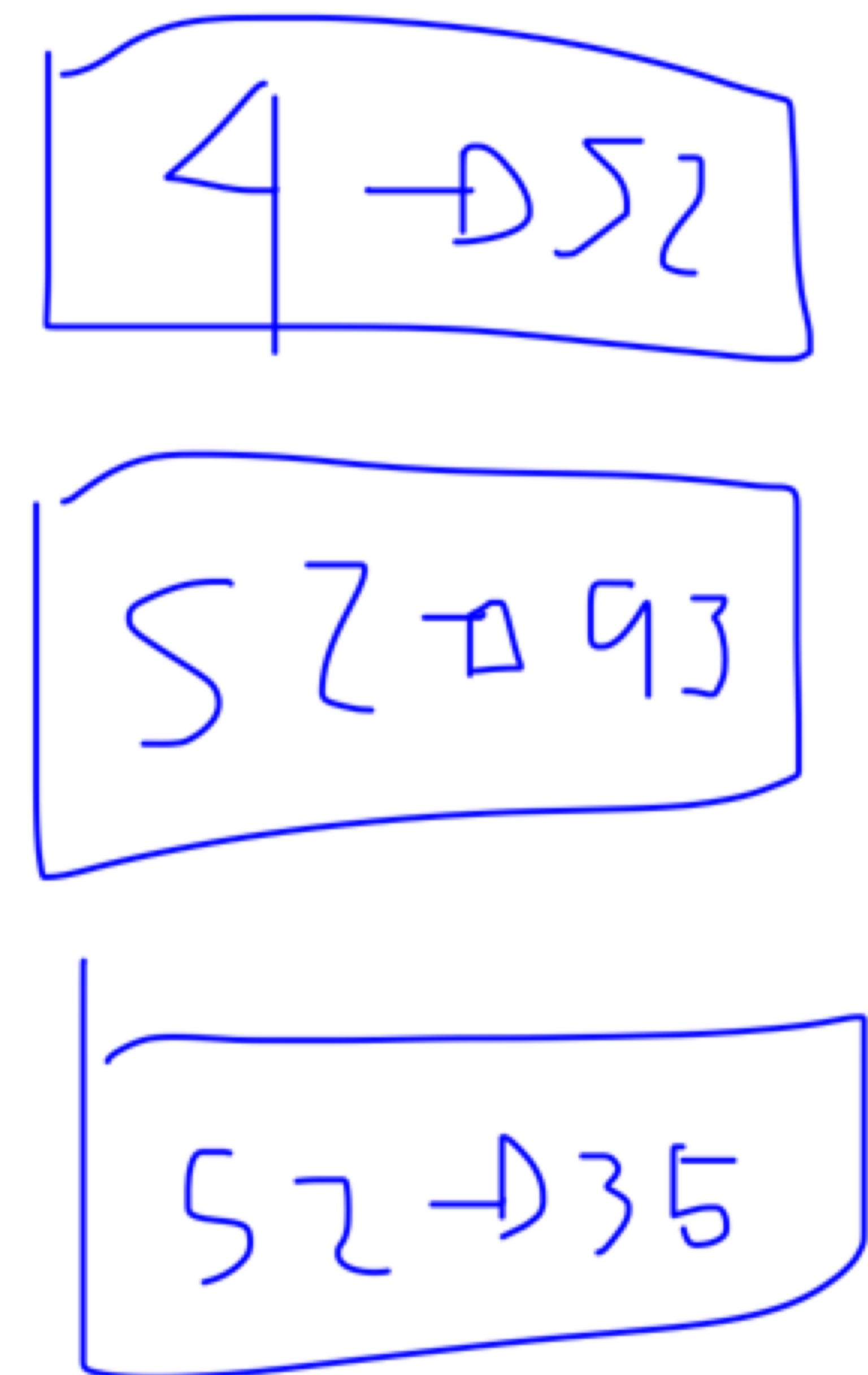
Tanh



Convolution Imágenes

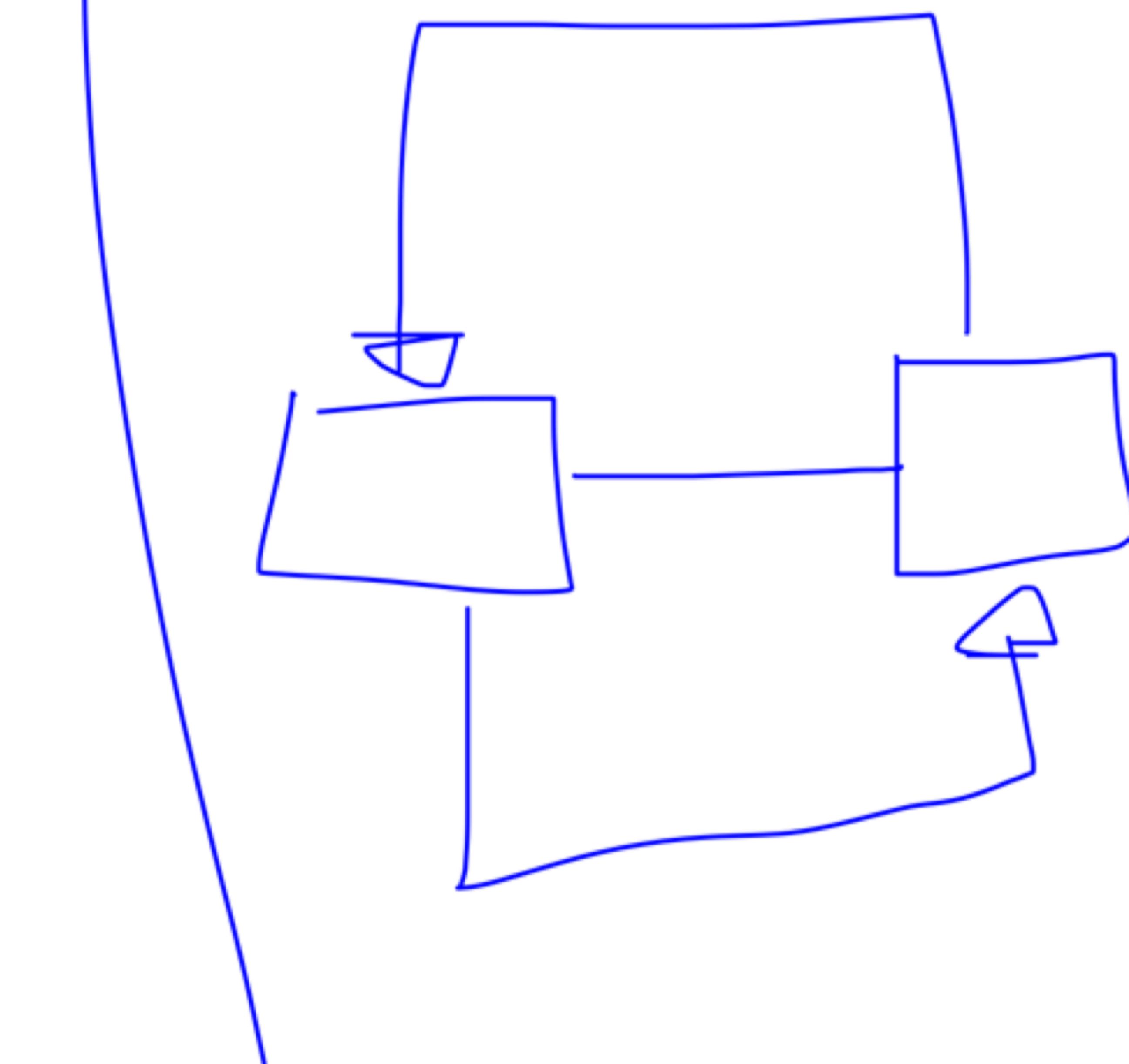


Recurrent + $t < x + 0$



LST

GRU

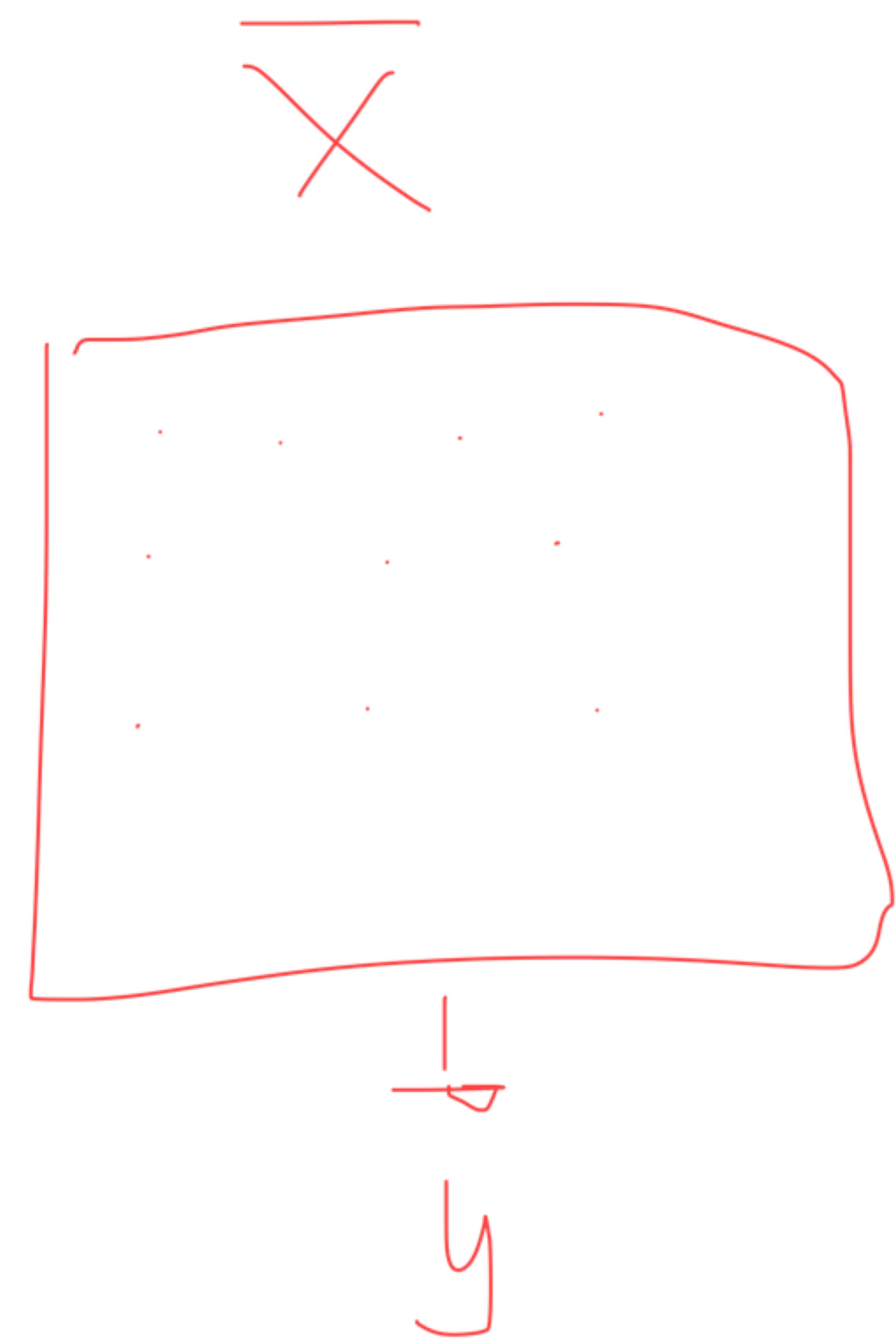


~~Tex + o~~

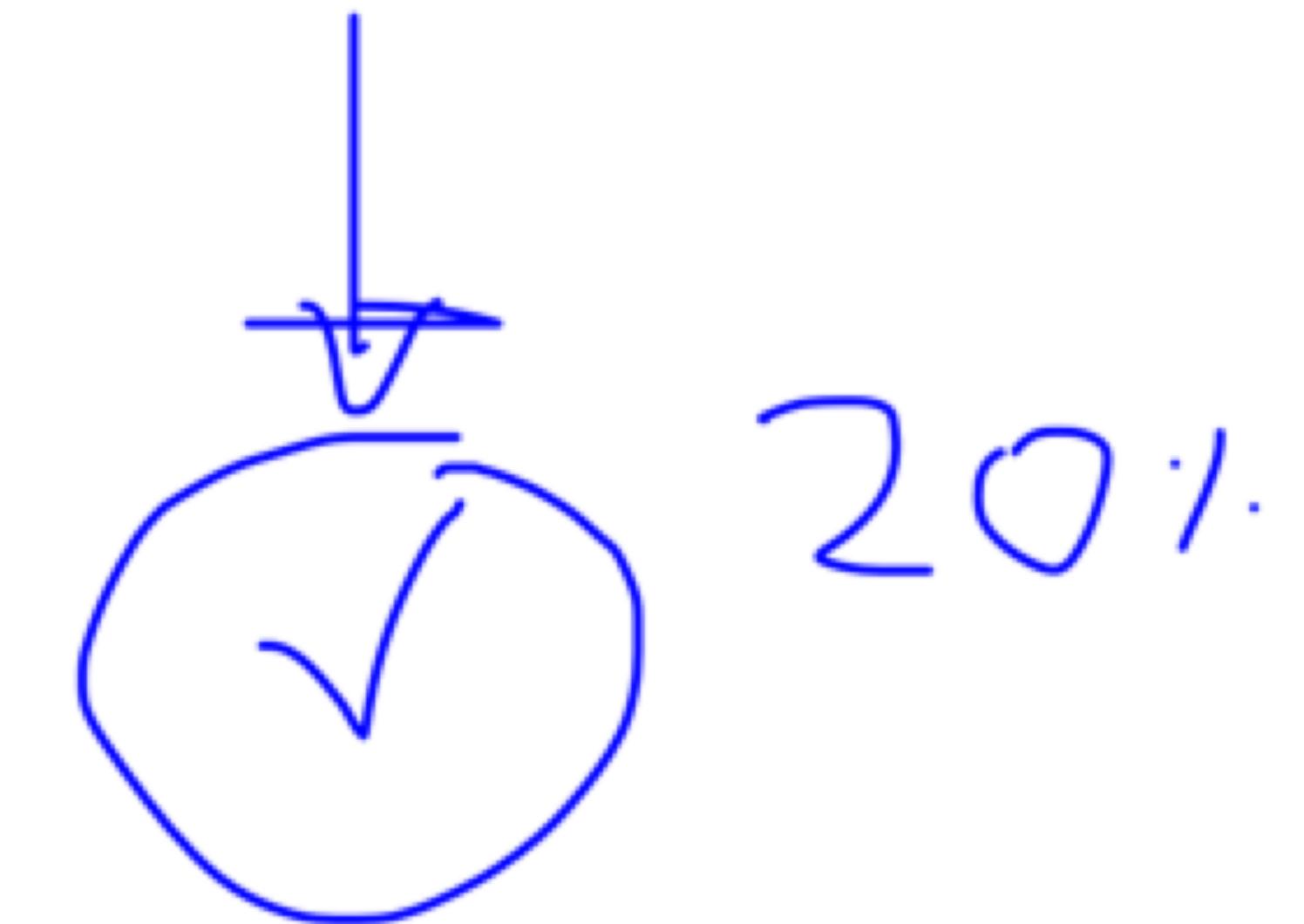
PLN

Tex + o

NLTK



$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$
$$= P(B|A) P(A)$$

$$P(H|R) = P(R|H) P(R)$$
$$= \underline{2\%} | 10\%$$


$$P(S | \perp, M, H, \dots) = 0.5004%$$

$$P(S | \overset{\text{↓}}{\perp}, A, M, \dots) = \frac{11}{17} 0.70%$$

$$= P(y) \prod_i P(x_i | y)$$

$$= P(S) \prod_{\perp} P(\underset{20\%}{\perp} | S) \\ P(A=M | S) \xrightarrow{P40y.} \\ P(H) \xrightarrow{P70\%} P_{10\%}$$

