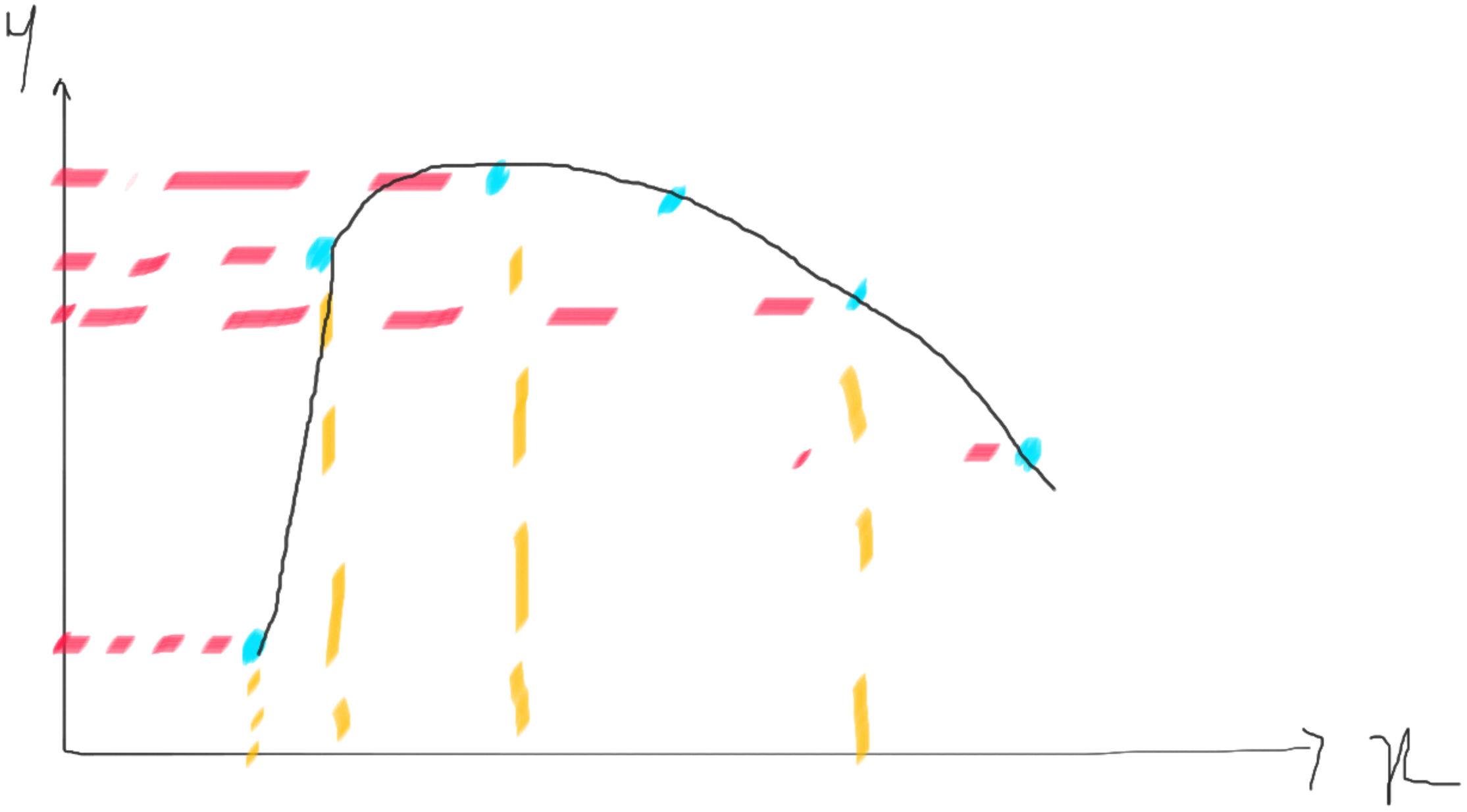
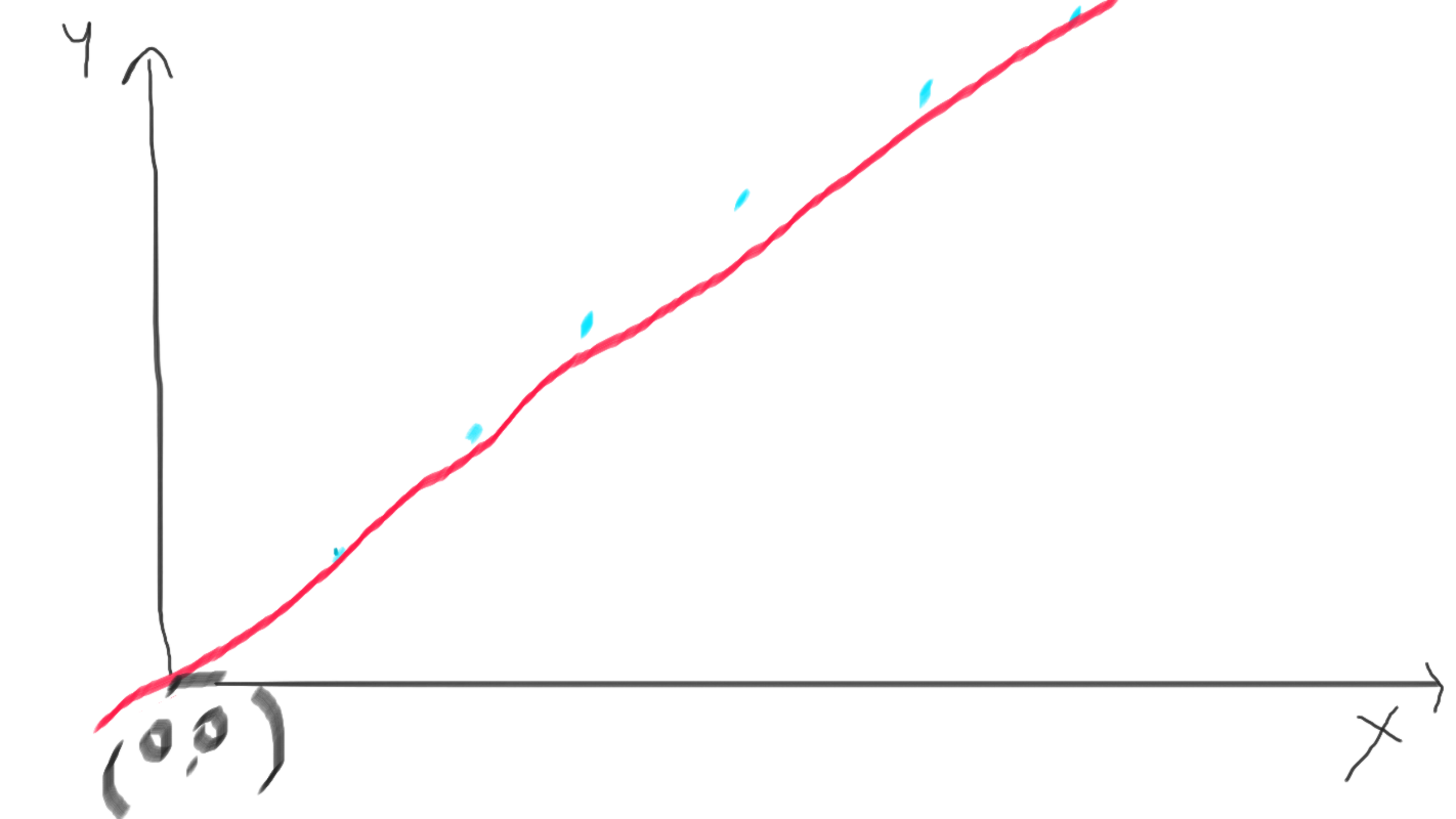
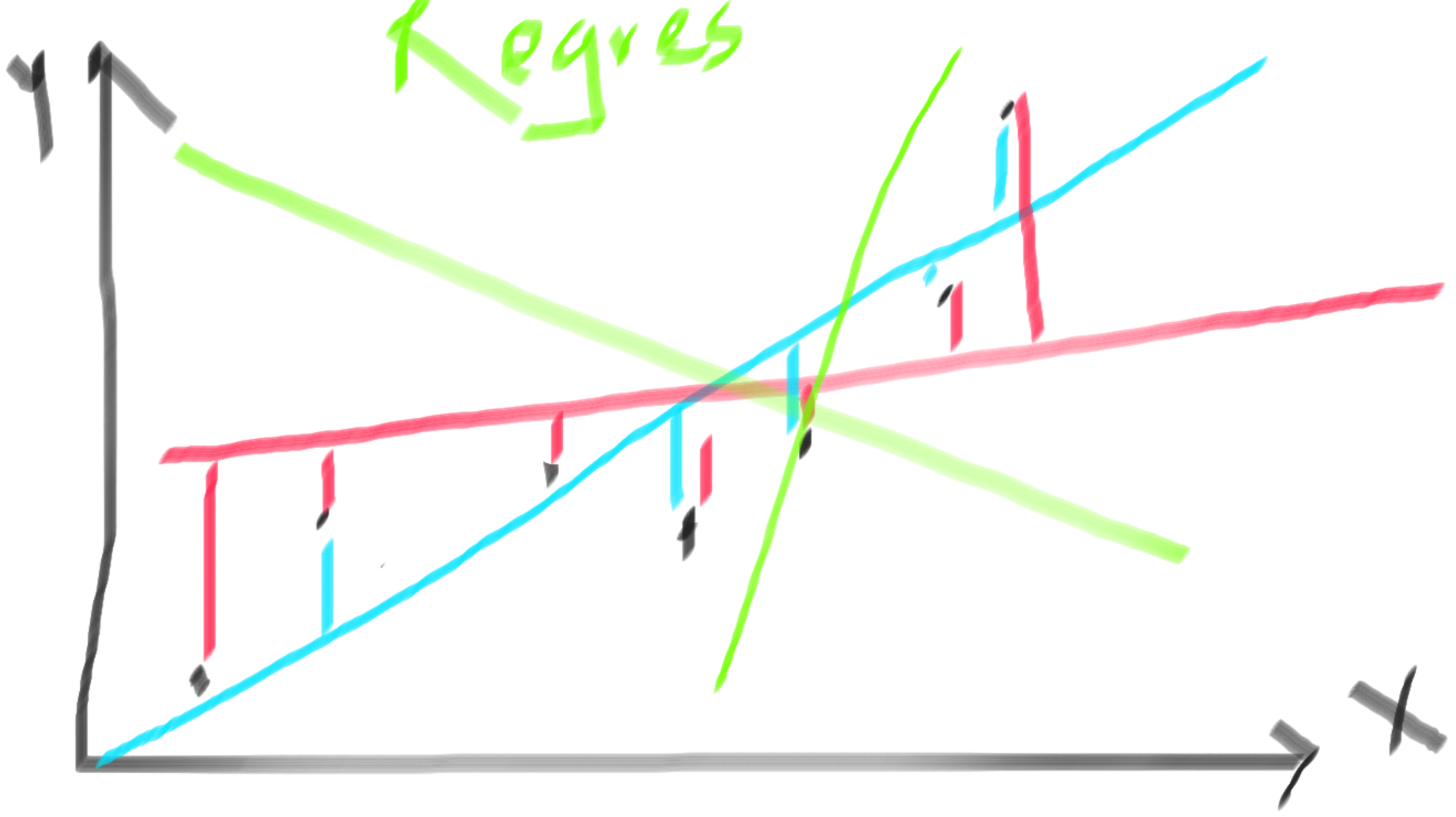
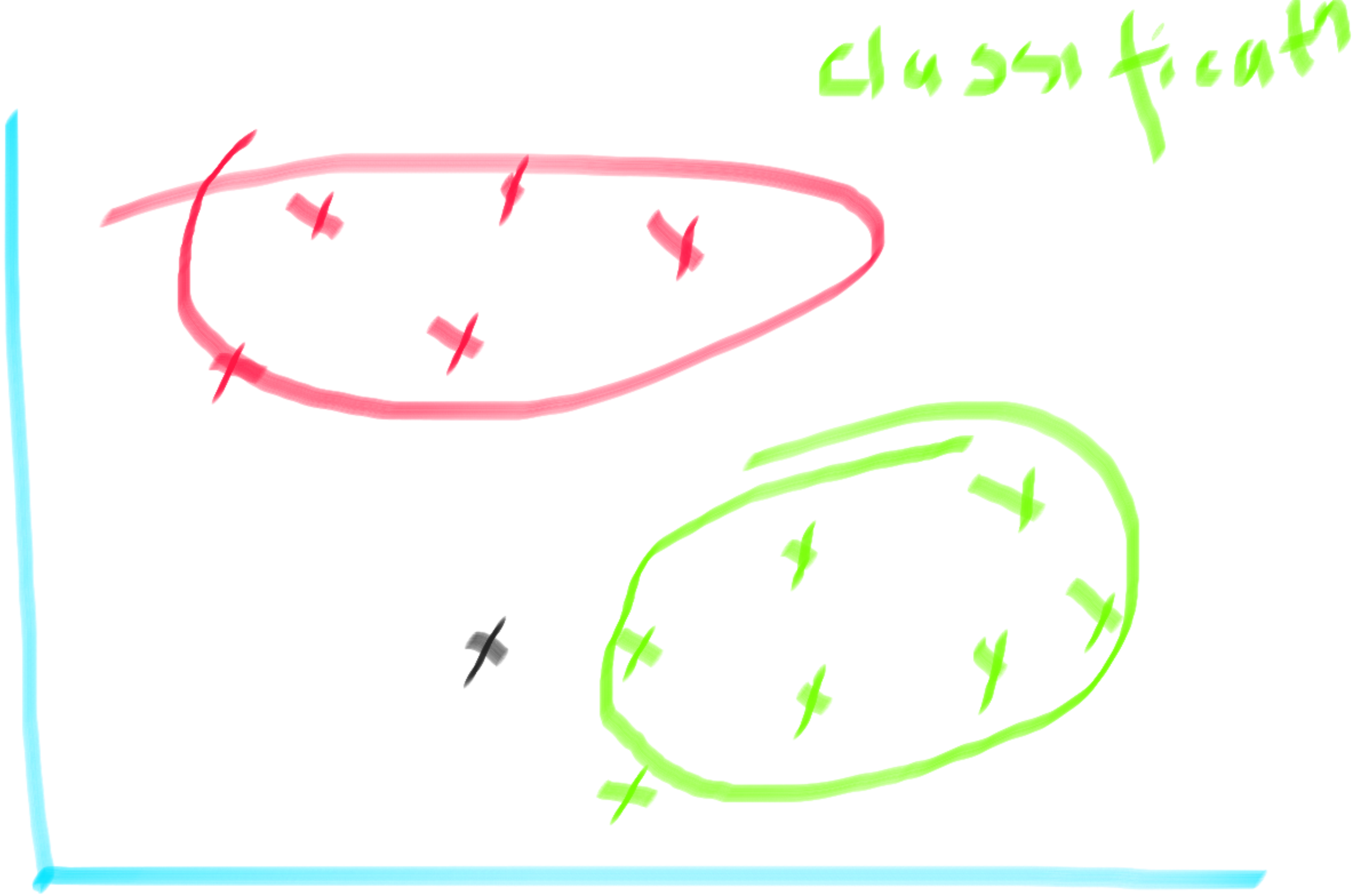
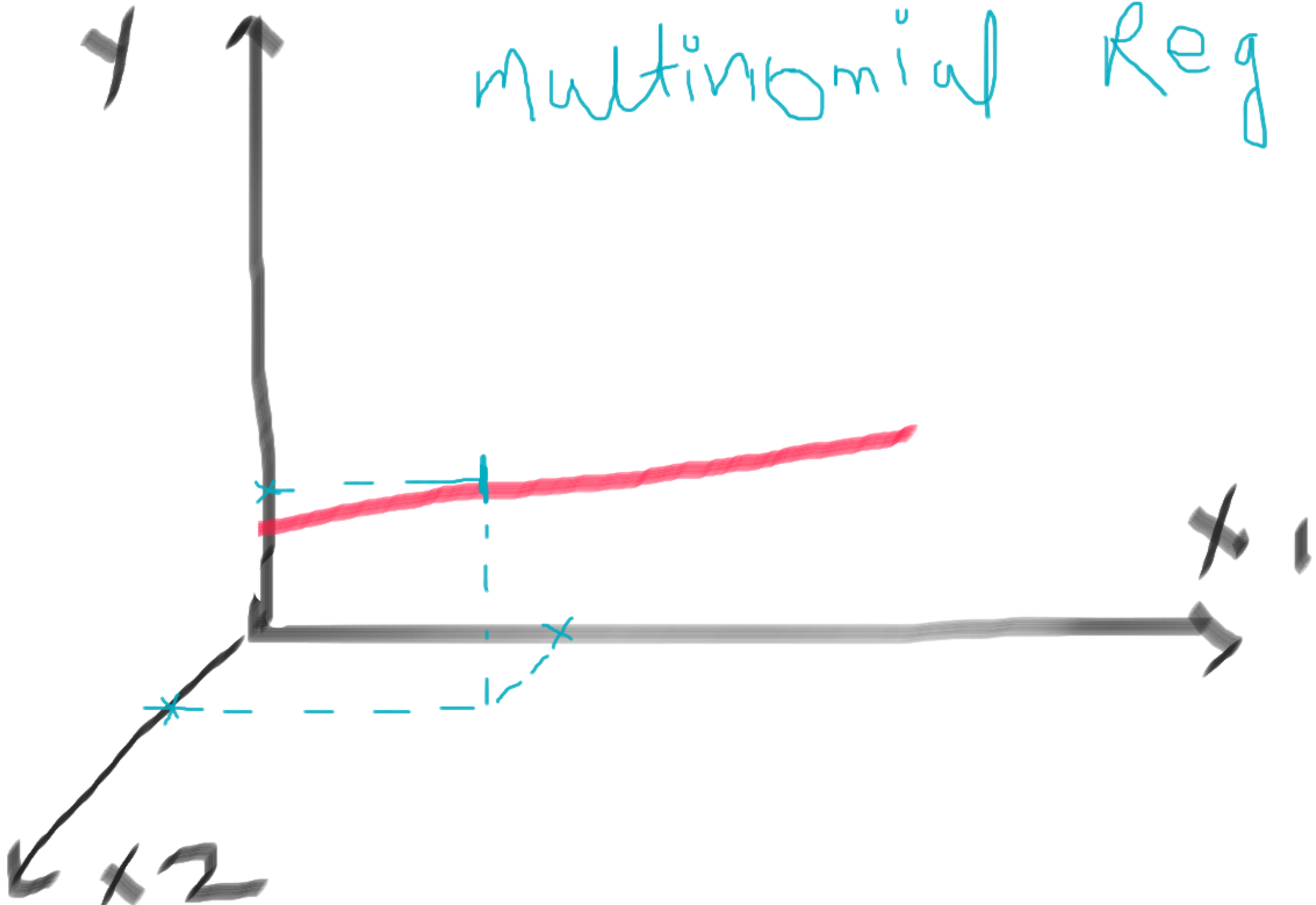

y
x


y
(0,0)
x

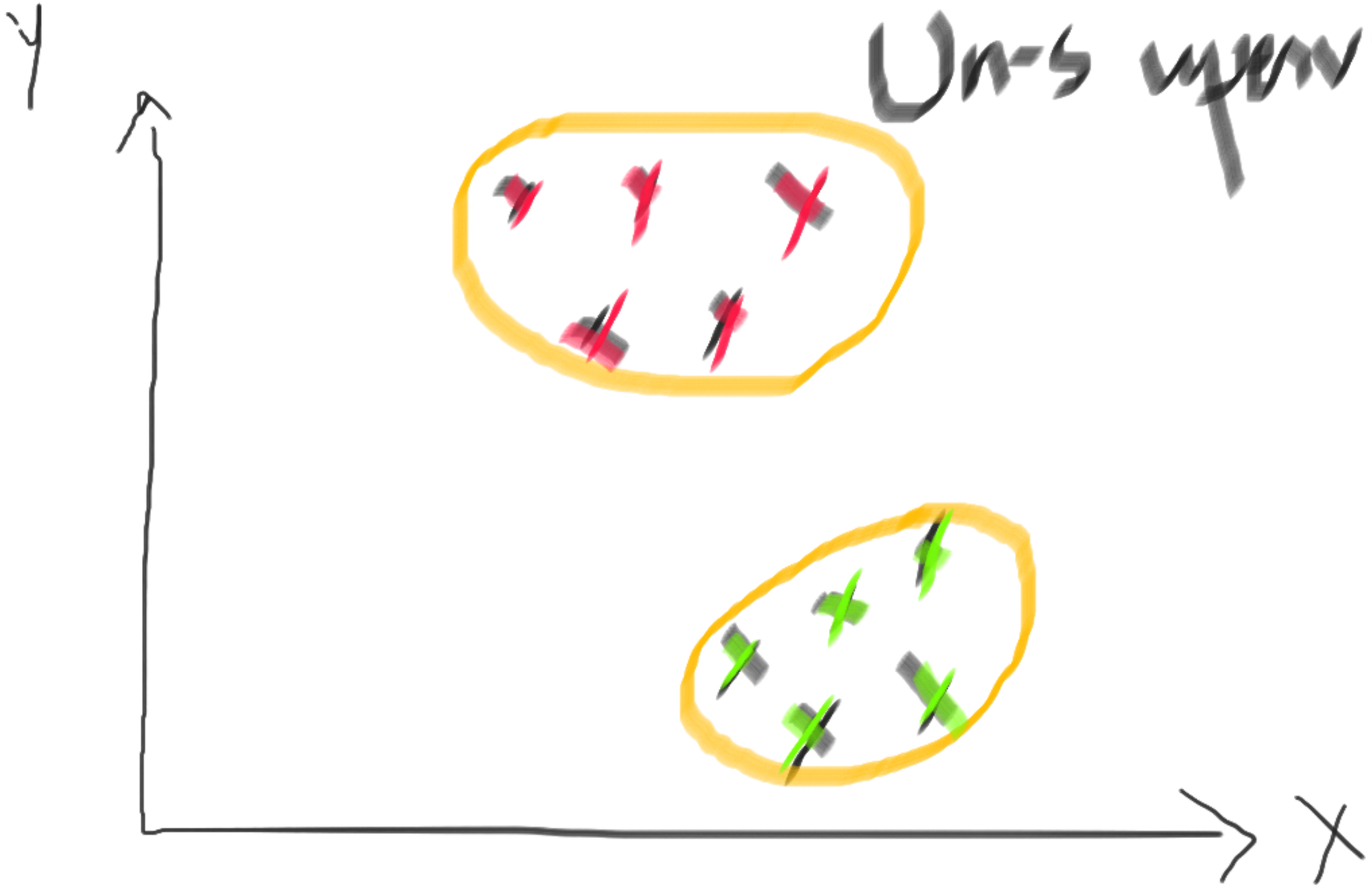

Regres
Y
X

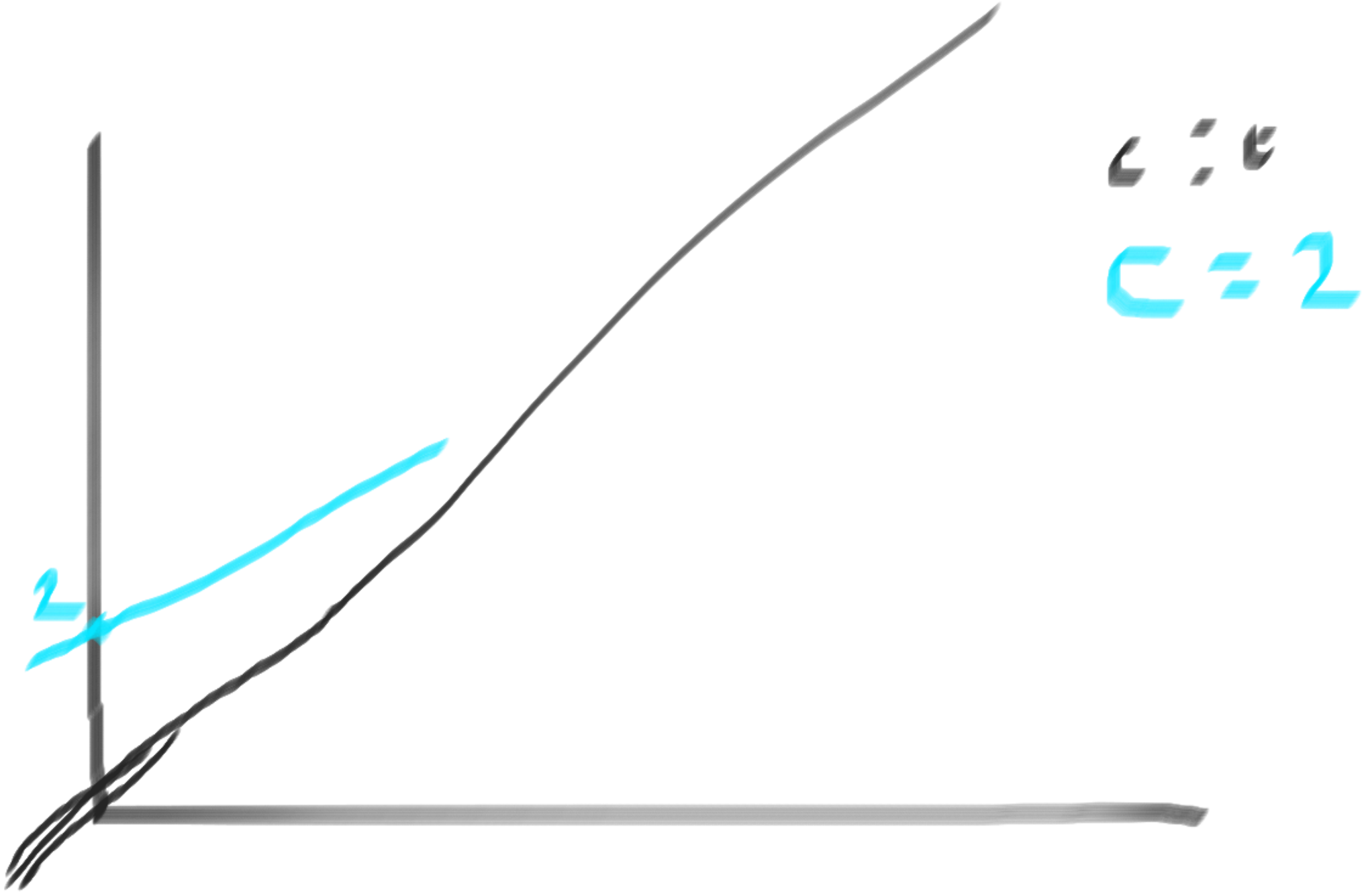

classificatn

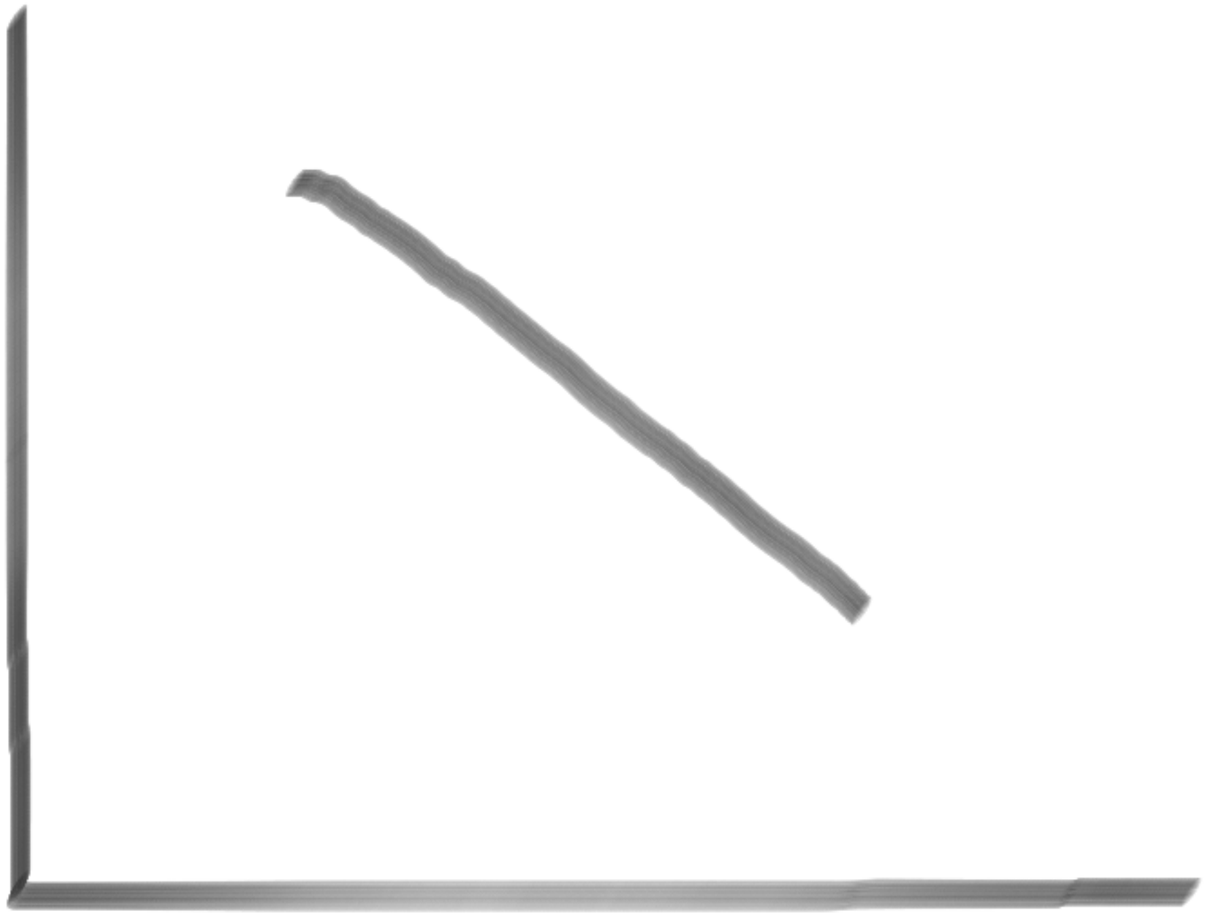
multinomial Reg

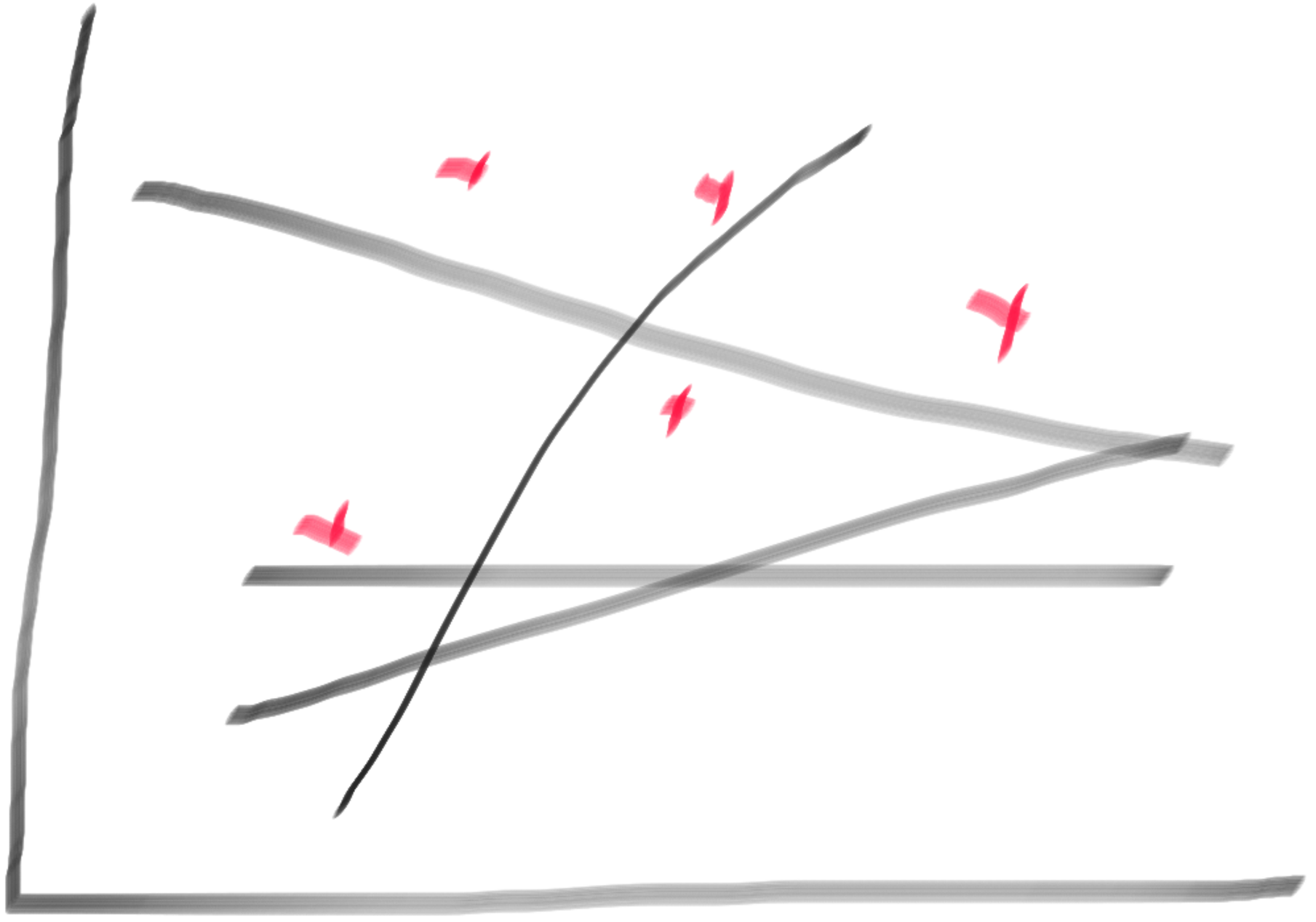


Un-supervised



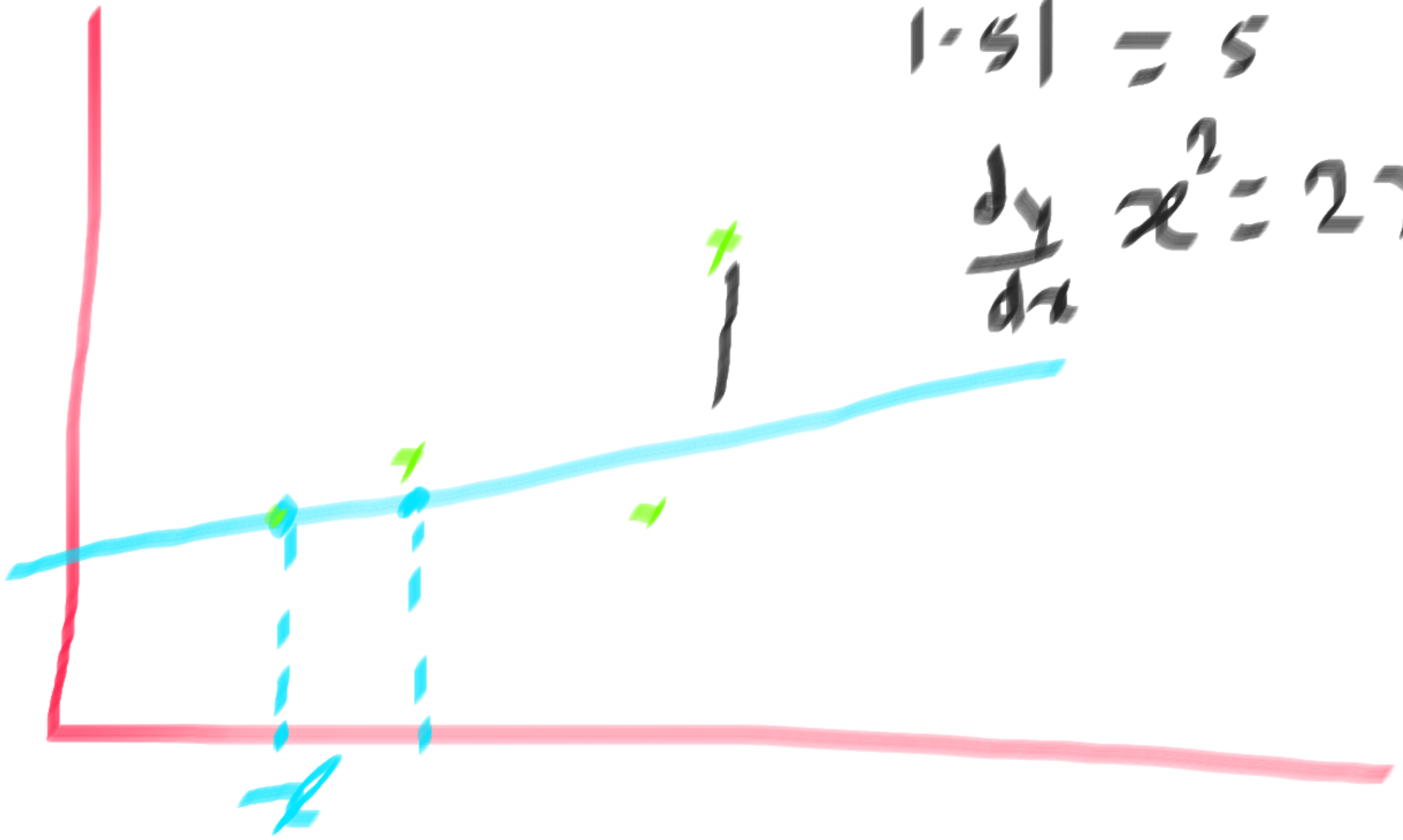

c = 2
2

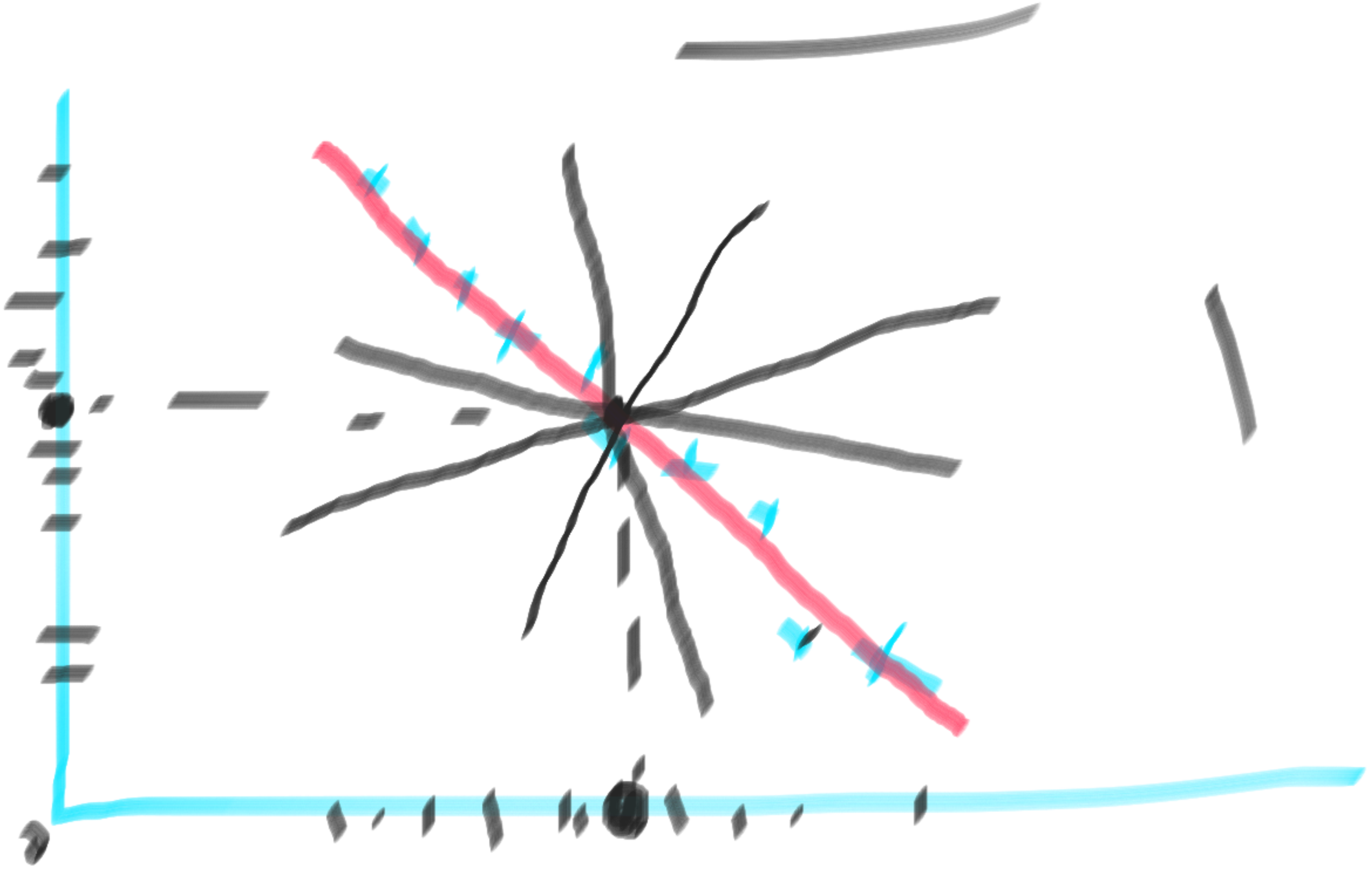


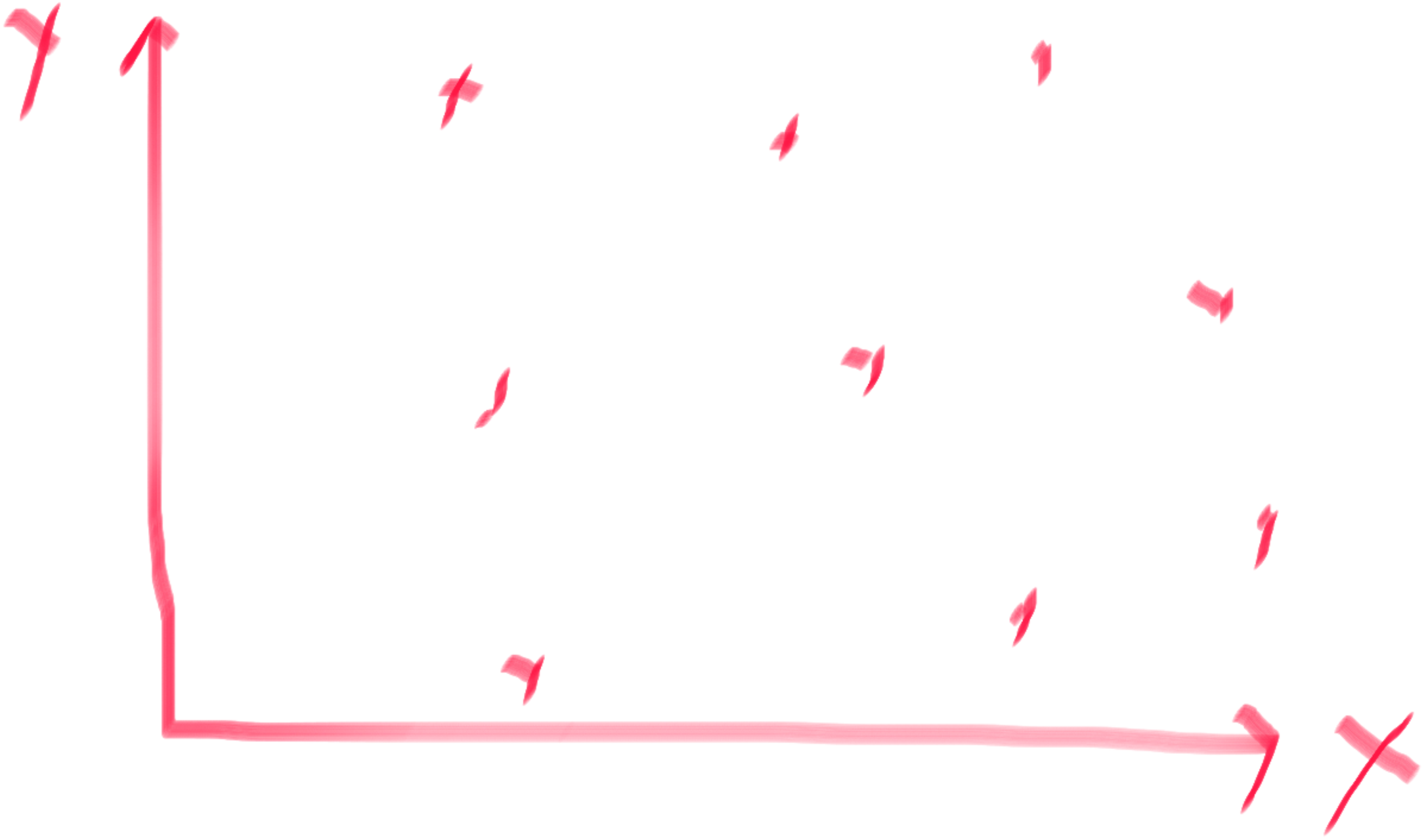


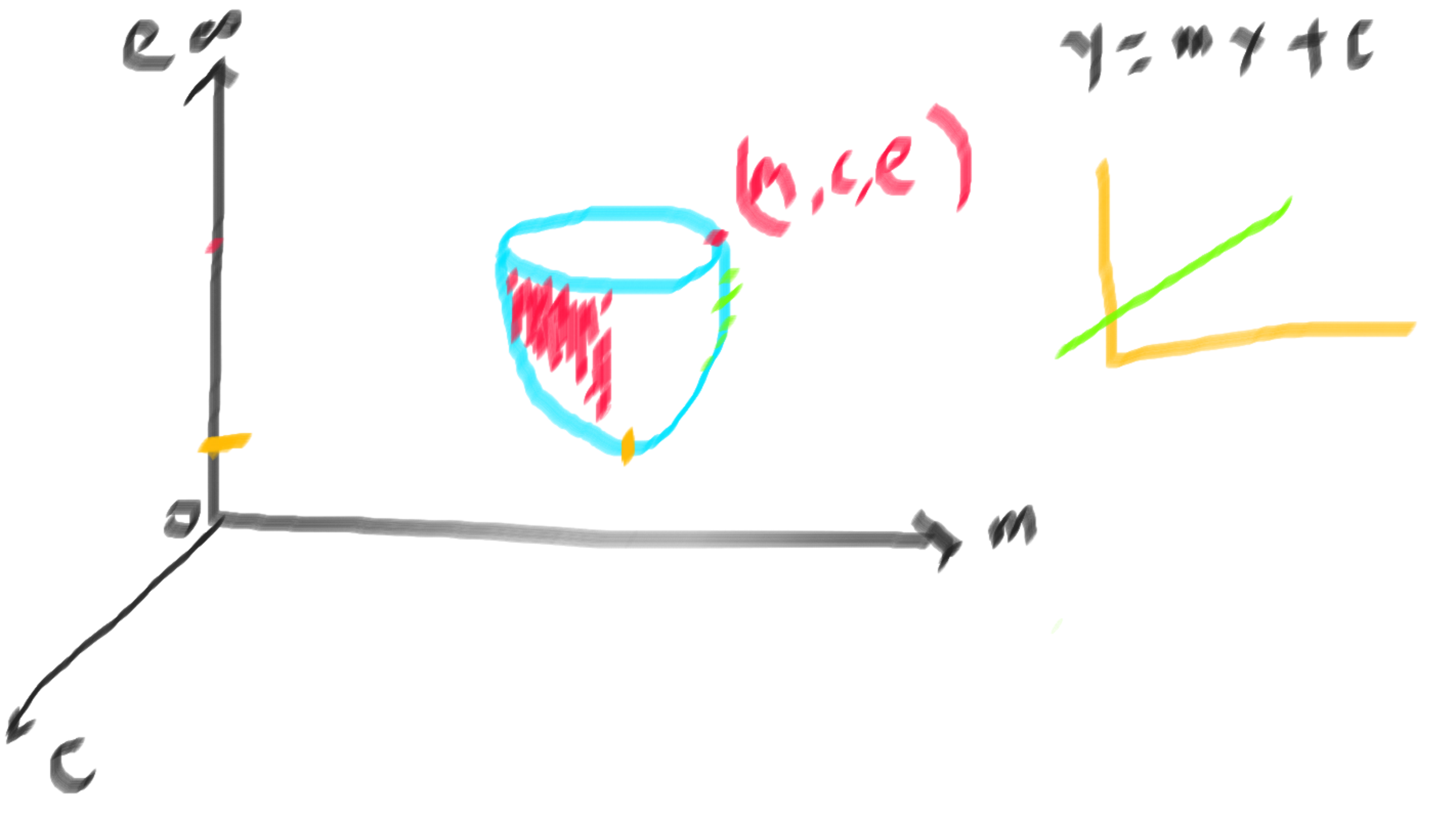
$|-5| = 5$

$\frac{d}{dx} x^2 = 2x$

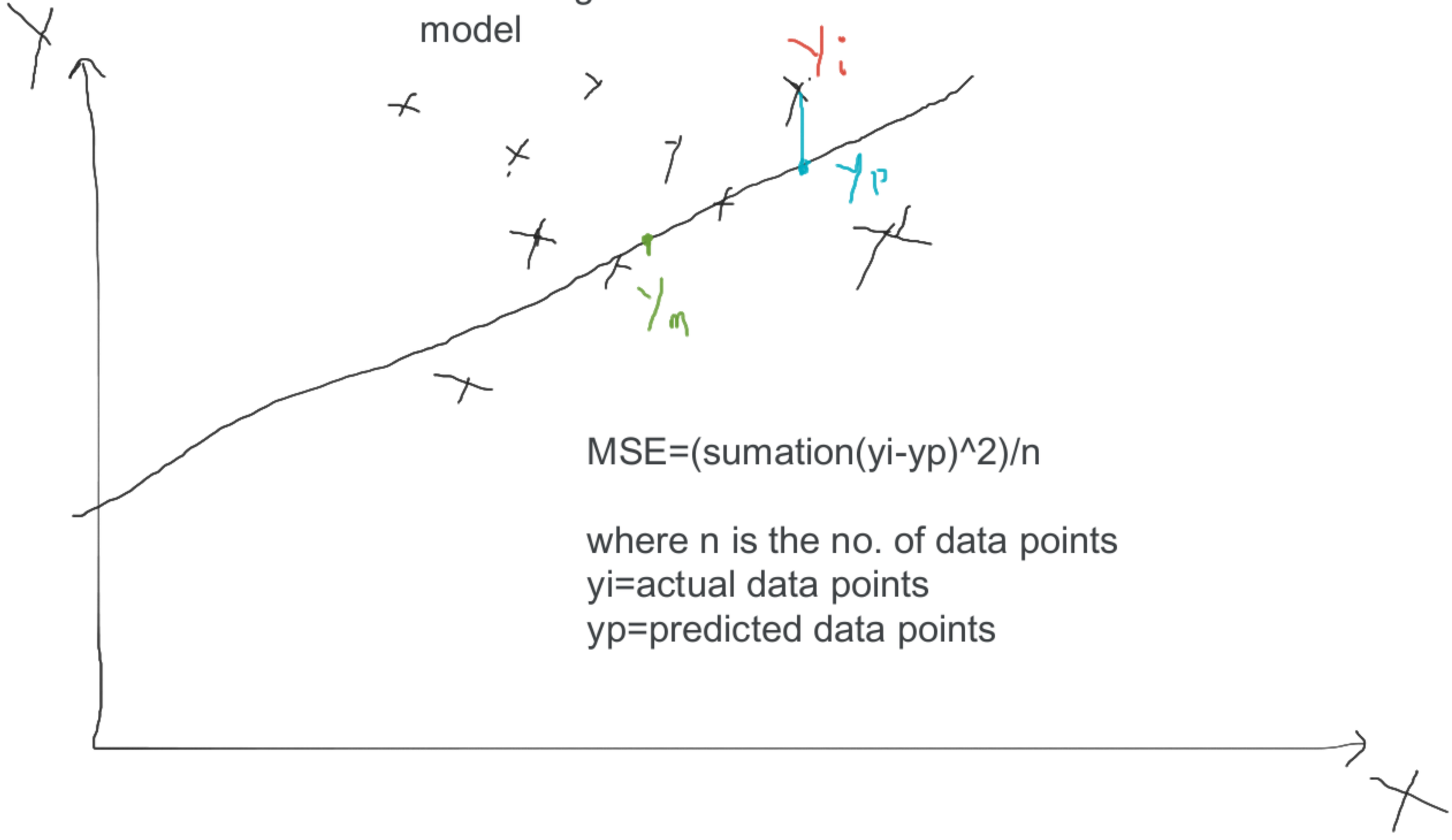





y
x

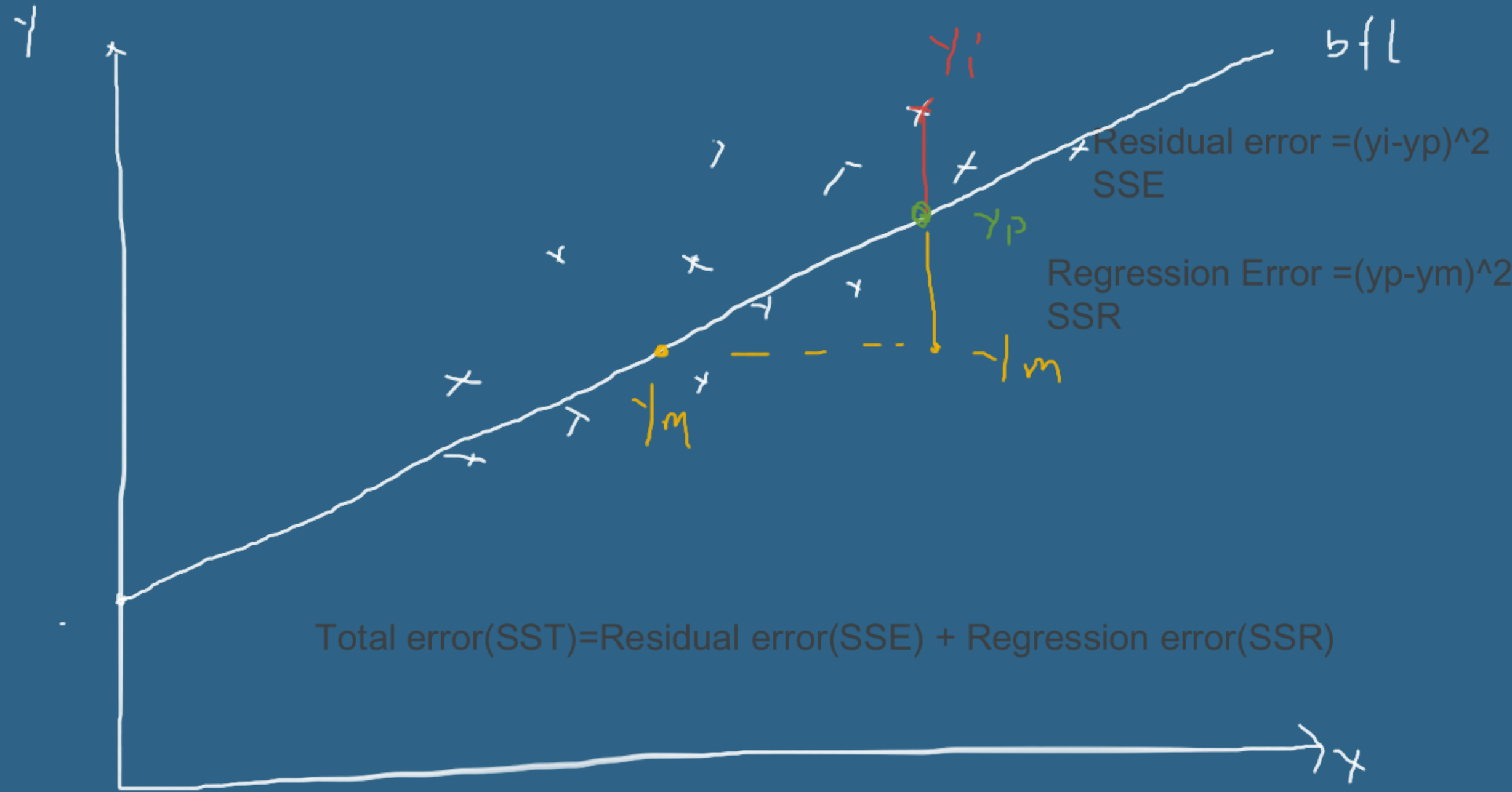

e
m
c
(m, c, e)
y = m x + c

Evaluating model



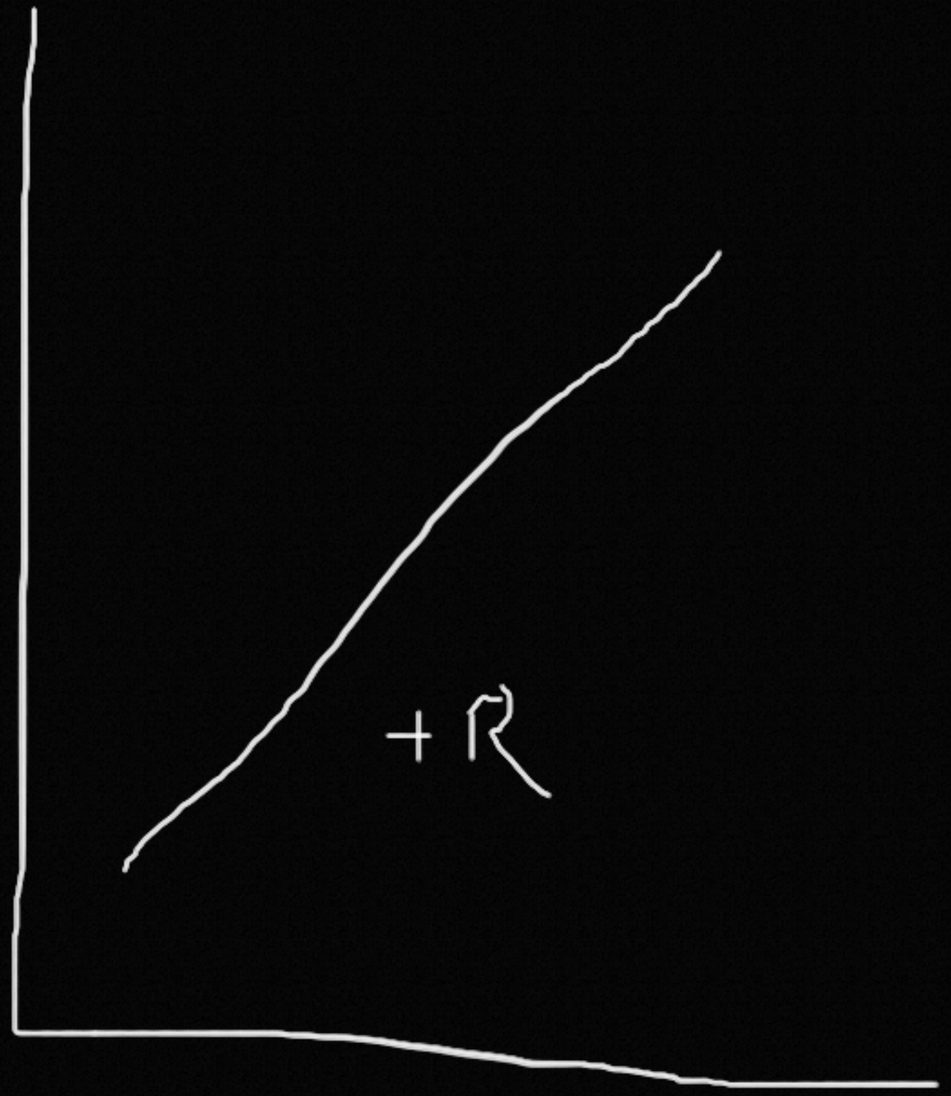
MSE=(sumation(yi-yp)^2)/n

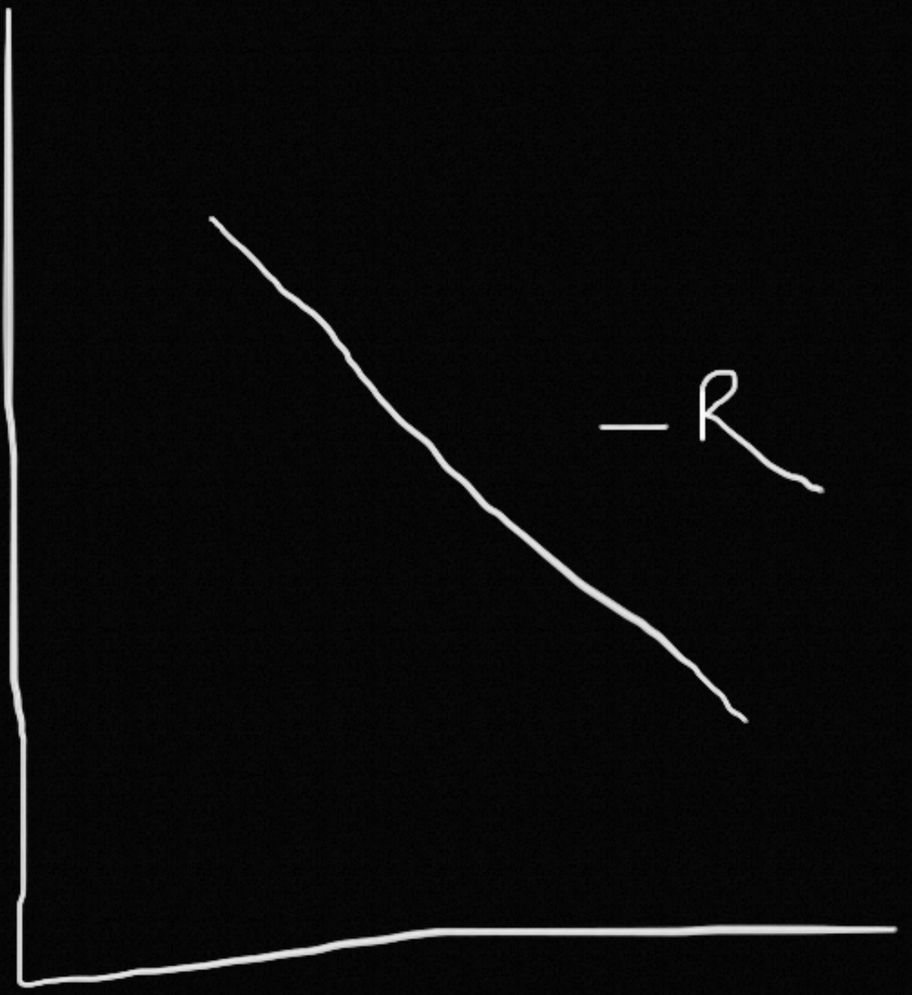
where n is the no. of data points
yi=actual data points
yp=predicted data points


y
yi
bfl
Residual error =(yi-yp)^2
SSE
yp
Regression Error =(yp-ym)^2
SSR
ym
ym
Total error(SST)=Residual error(SSE) + Regression error(SSR)
x

R squared = 1 - (SSE/SST)

Coefficinet of determination = 1 - (yi-yp)^2 / ((yi-yp)^2+(yp-ym)^2)
coefficient of multiple determination


+R


−R