j dealiste FICHEROS BARRIO Exterior ... Anea 80 MORALEDA 1000000 koggle CSV 1. Vacio ١, Fotocasa ~ IDEALISTA) CATASTRO

LIMSTRUCTURE D DATA STRUCTU RED DAT A

```
# Data Preparation

(X) = df[['TotalSF']] # pandas DataFrame 
(Y) = df["SalePrice"] # pandas Series

(ATAFRAME Vobjetivo = Series
```

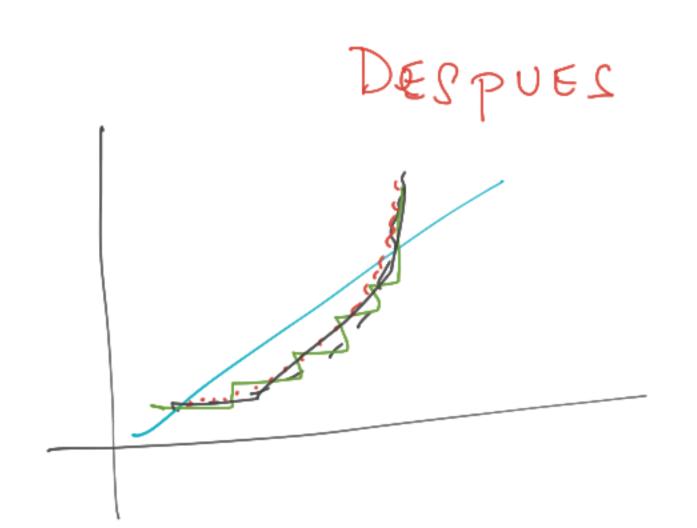
$$y = f(X)$$

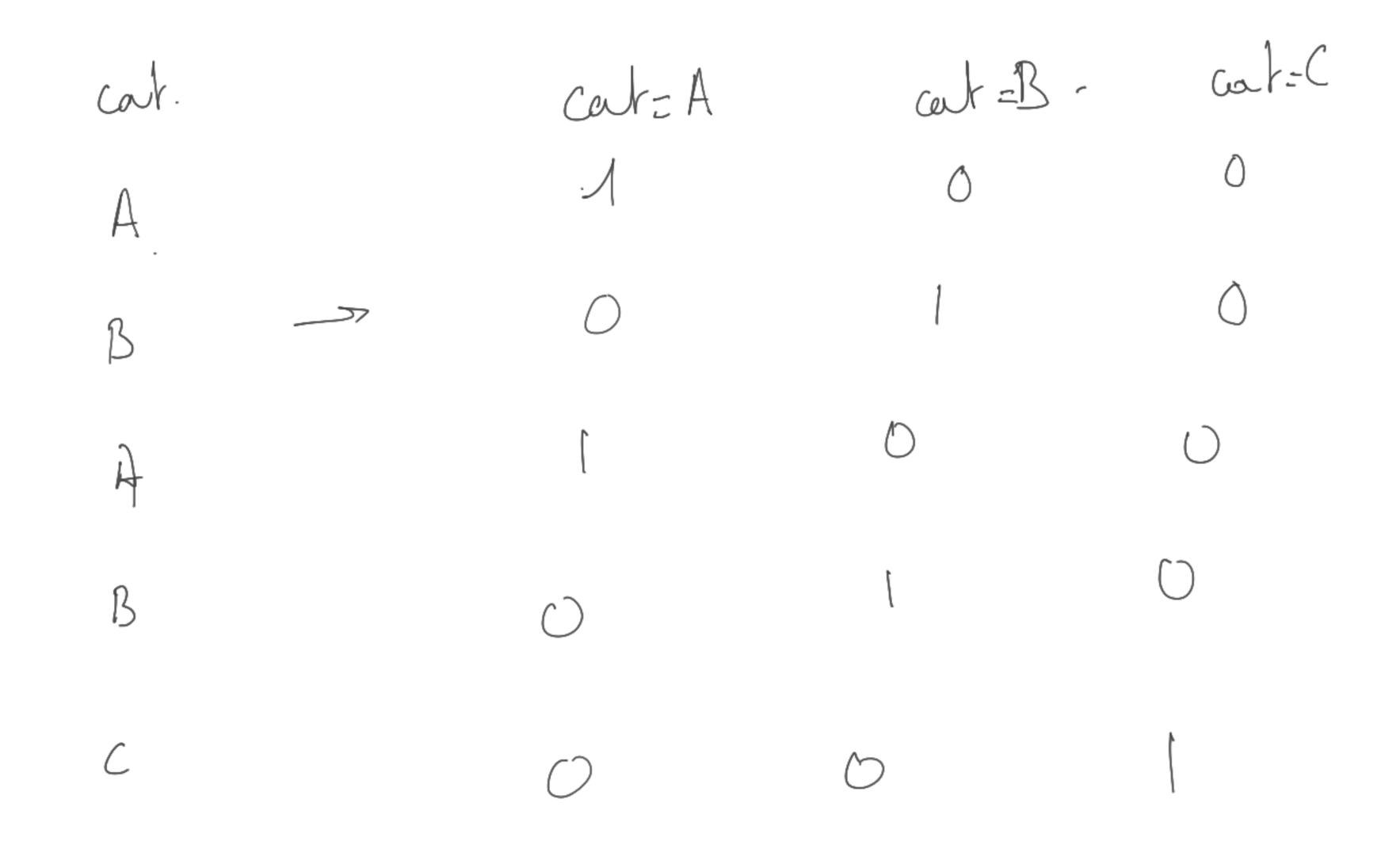
REG. LINEAL Características

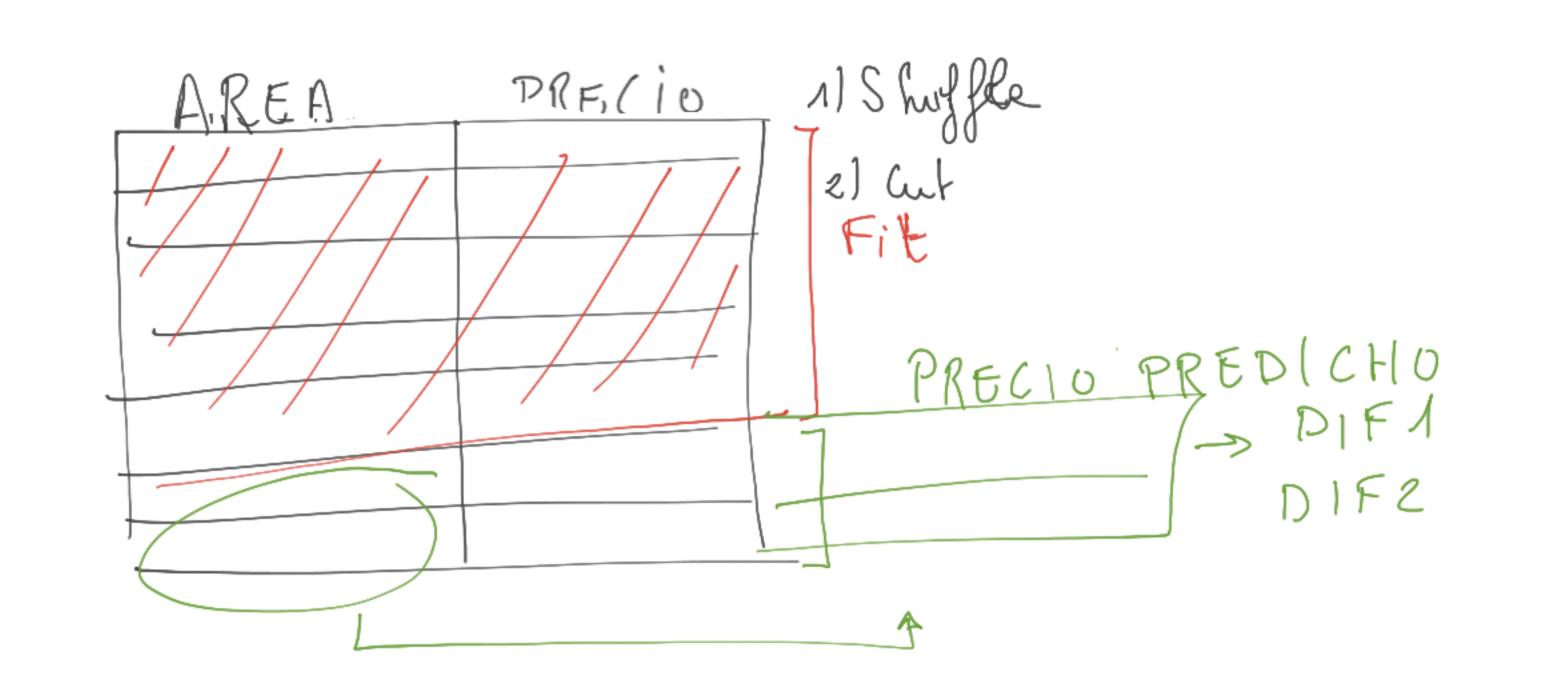
y= axi + bx2 + cx3

reg.  $gir(X,y) \rightarrow best a,b,c min OLS$  T= min E(y-y)  $J_2 = min E|y-y|$ 

X SPREDICTOR GUAX PARA RE6 LINBAL







X train

y train

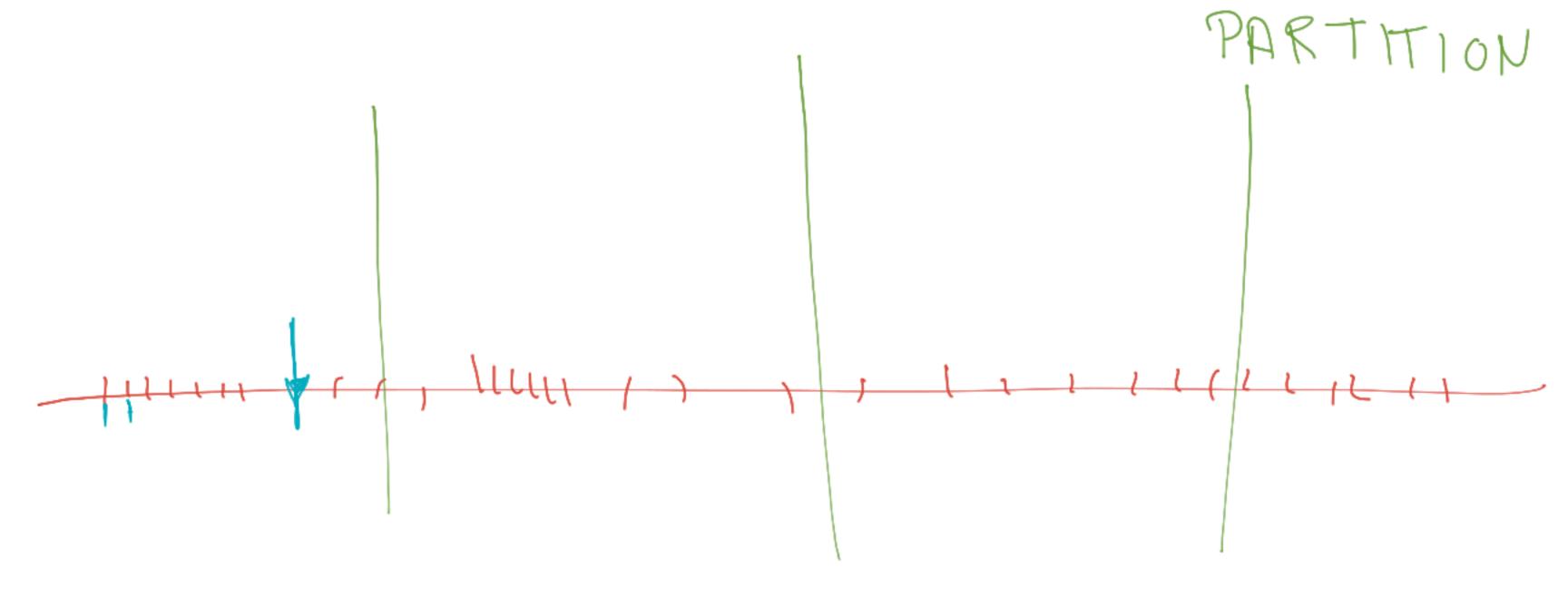
y train

y train

y test | y pred

R Neural MEIGHBORS objet Canach No Fit X 1) Buscar & elementes + práximos + parewdos

3 ve imos (tRAINL> Se preino) 1 TRAIN



```
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.20, random_state=42)
```

Xtrai ytrai Xtest ytest

IN REG

from sklearn.linear\_model import LinearRegression

reg = LinearRegression()

reg.fit(X\_train,y\_train)

PRED TEST

y\_pred = reg.predict(X\_test)

from sklearn.neighbors import KNeighborsRegressor

regk = KNeighborsRegressor(n\_neighbors=5)

regk.fit(X\_train,y\_train)

LPRED TEST

] y\_predk = regk.predict(X\_test)

from sklearn.metrics import mean\_absolute\_error

mean\_absolute\_error(y\_test,y\_pred)

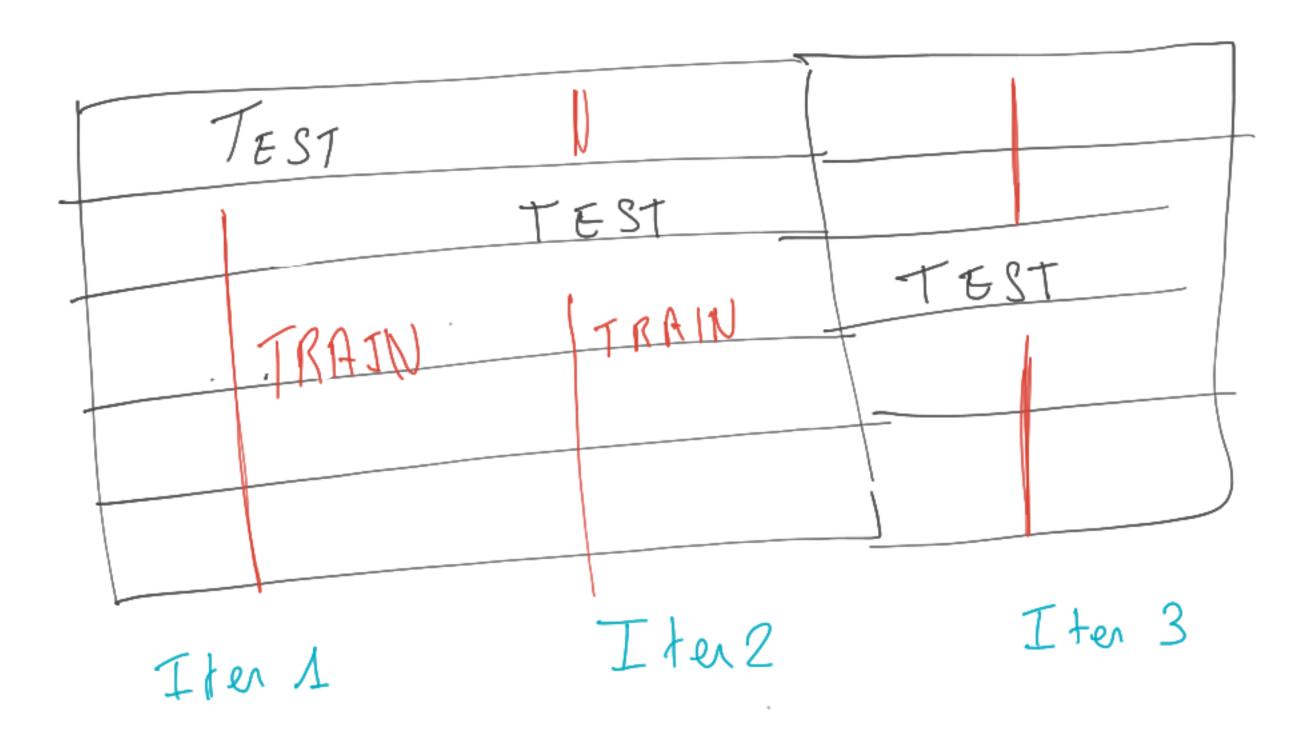
mean\_absolute\_error(y\_test,y\_predk)

from sklearn.metrics import mean\_squared\_error

# RMSE: Lin Reg
np.sqrt(mean\_squared\_error(y\_test,y\_pred))

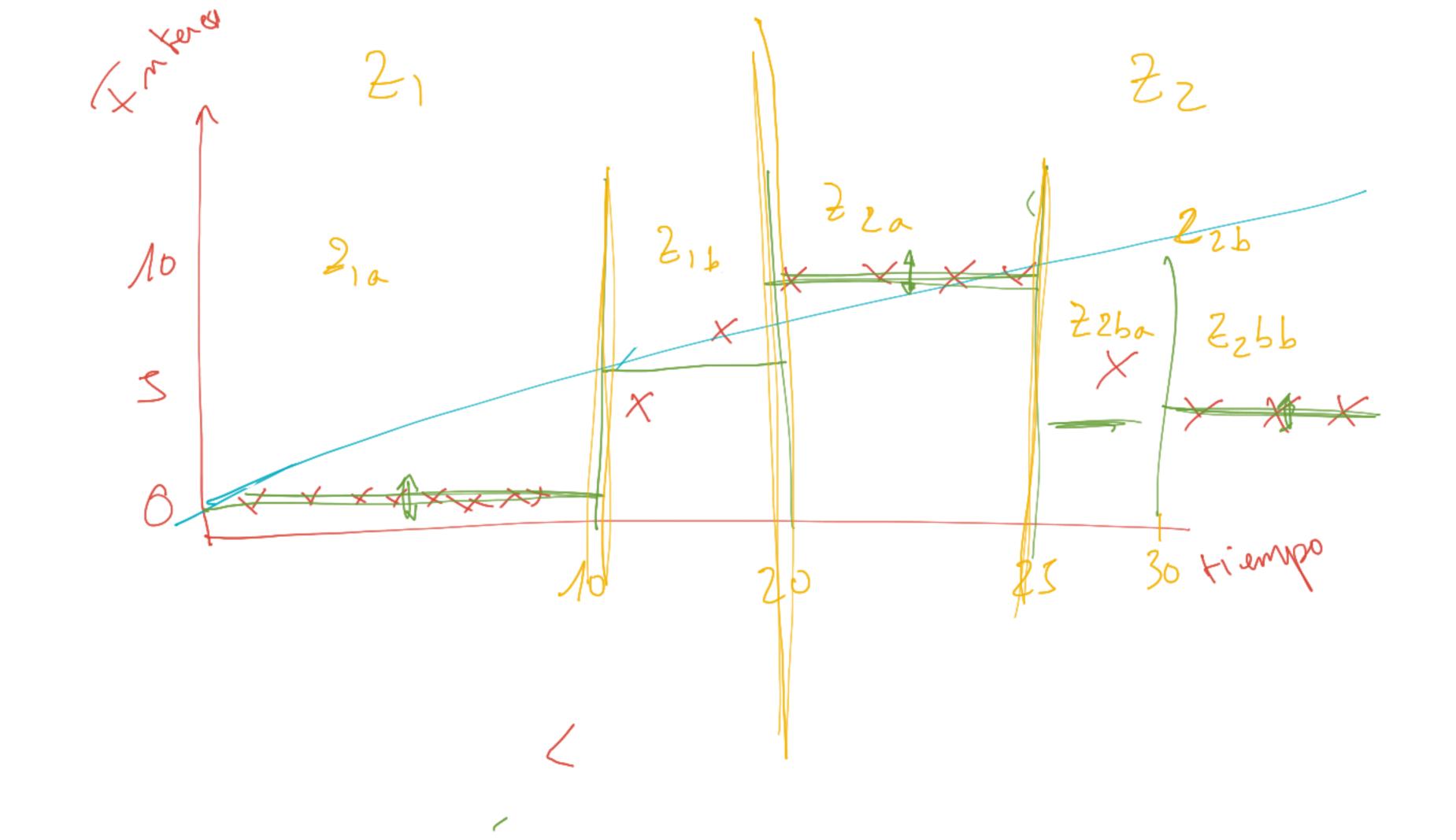
# RMSE: k Nei

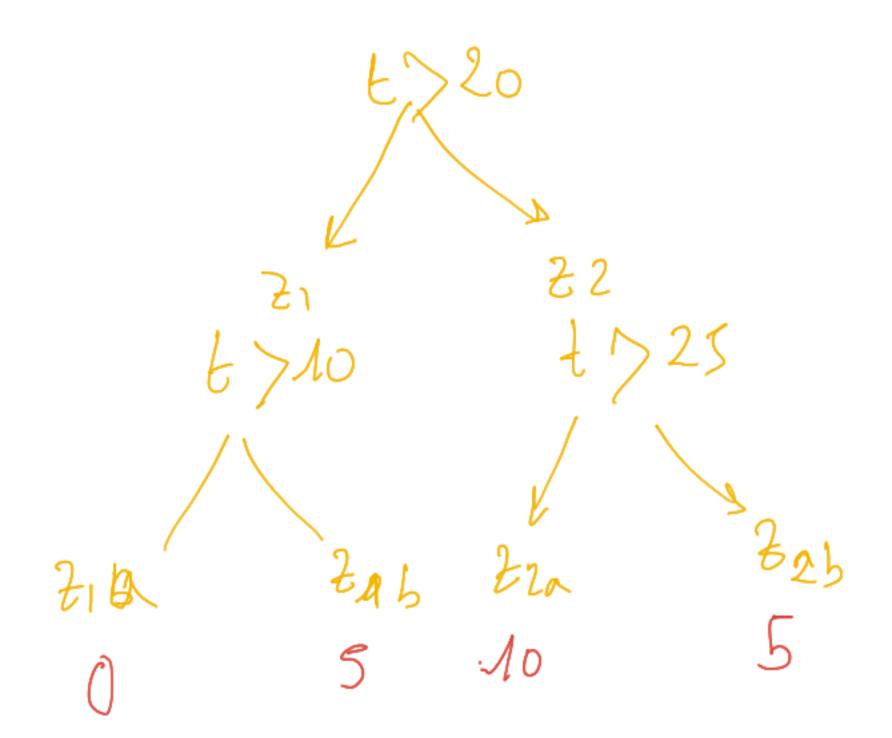
np.sqrt(mean\_squared\_error(y\_test,y\_predk))



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WEKEST UNDERFIT BESTONPROMISE





Morris Kneer-

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