

= W, x, + M2 x, + M3 x2. - + mn xn + C = [m][n]_{(xn}+D mot x + c = wx + C

J

$$\frac{1}{2} \frac{1}{2} \frac{1}$$

•

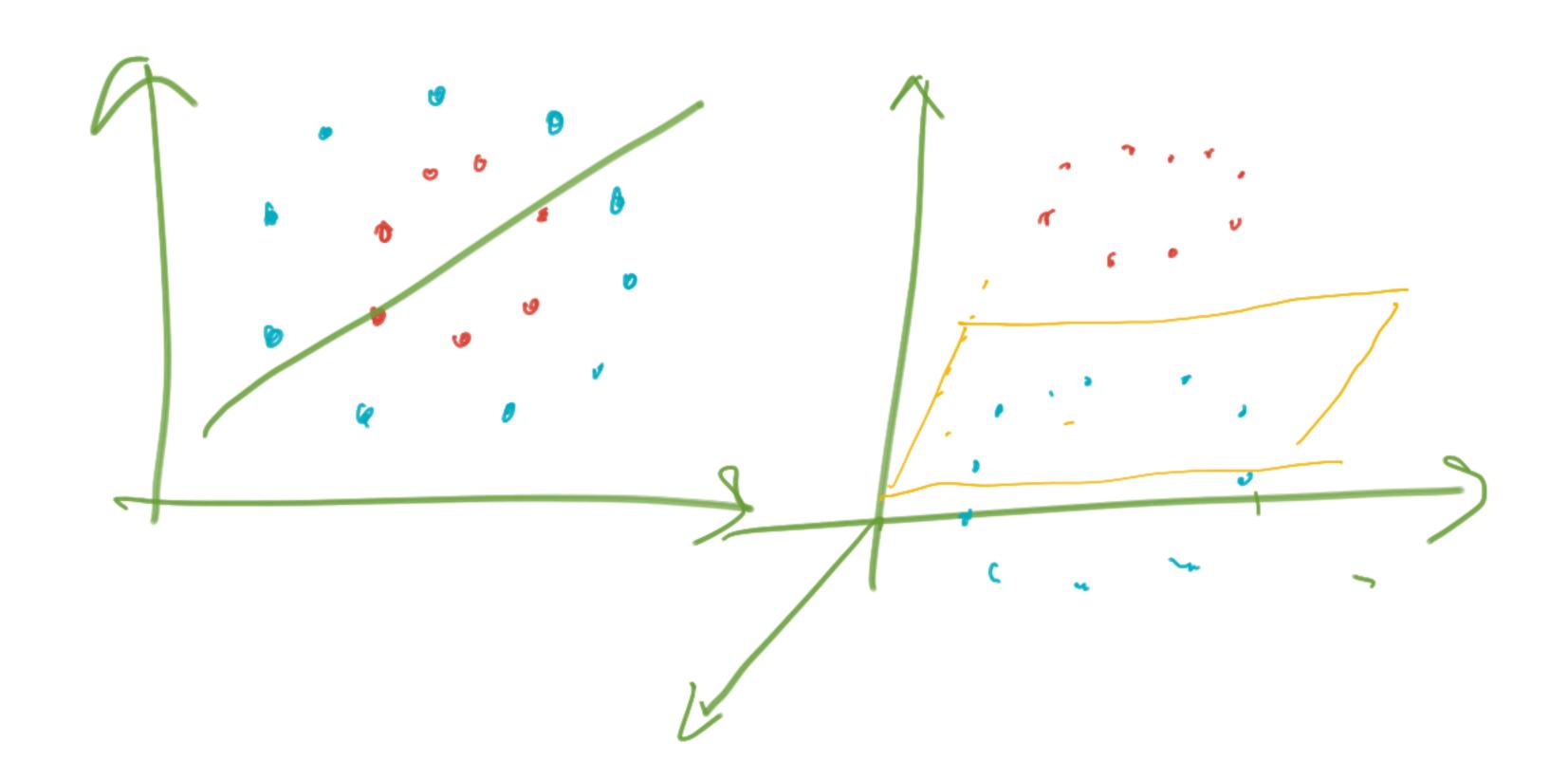
Mari = NIM nur 1 San T

 $W^{7}n+b\leq -1+vc$ 4 (W1+6) > 1 $(+ : mm) | ||w|| + c \leq 2;$ (w,b) = 2

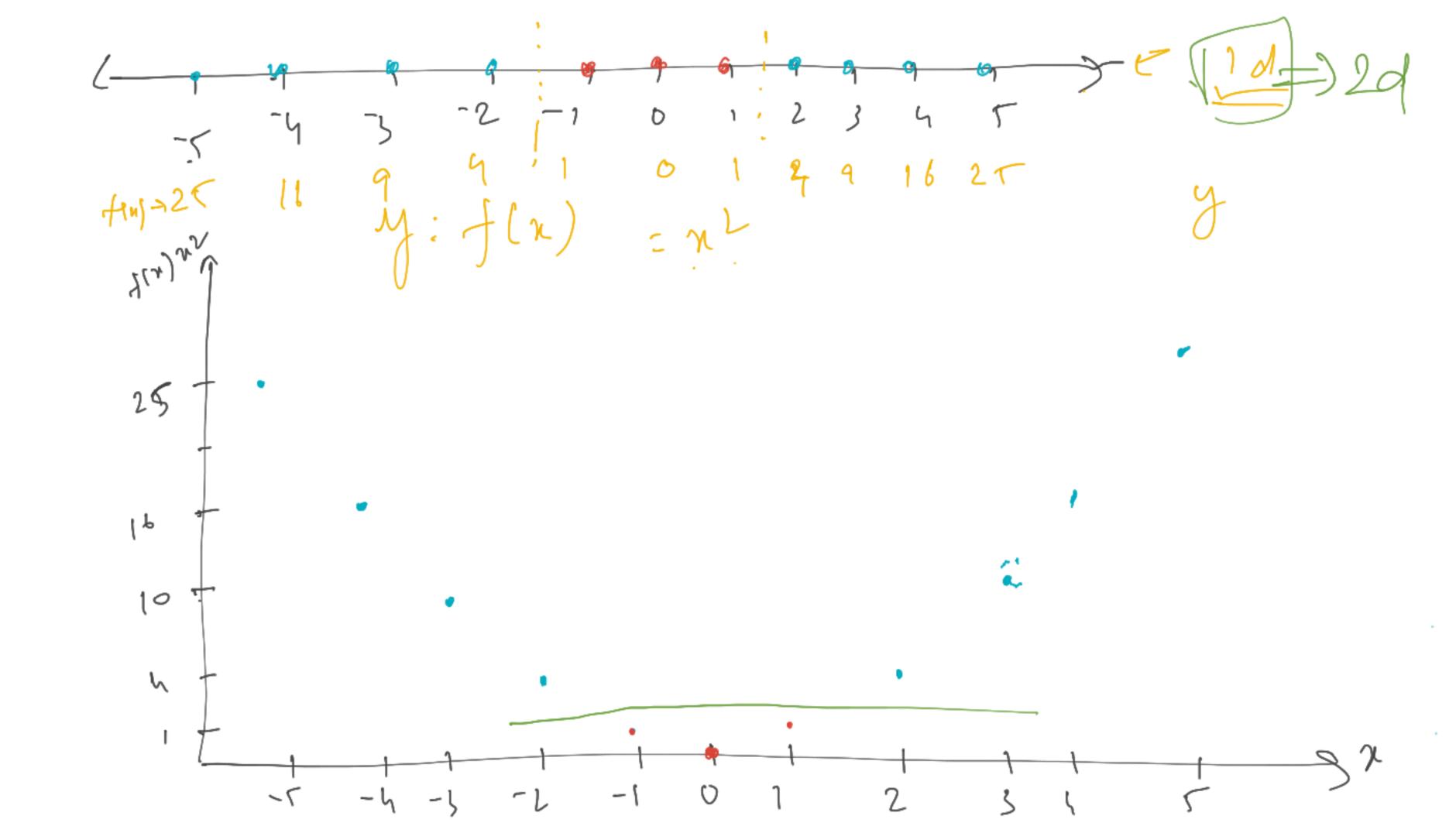
Soft margin

Kernel - linear - polynomaly - 8ignwid -)

1000 5 high n => f(2)



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Polynomial: K(n,y) = (nTy+c) d $\begin{bmatrix} x_{1} \\ x_{2} \end{bmatrix} \begin{bmatrix} x_{1} \\ x_{1} \end{bmatrix} = \begin{bmatrix} x_{1} \\ x_{1} \\ x_{2} \end{bmatrix} \begin{bmatrix} x_{1} \\ x_{2} \end{bmatrix}$

Rf R(u,v'): orp(112-v) $= 2x^2$

ang (< point)