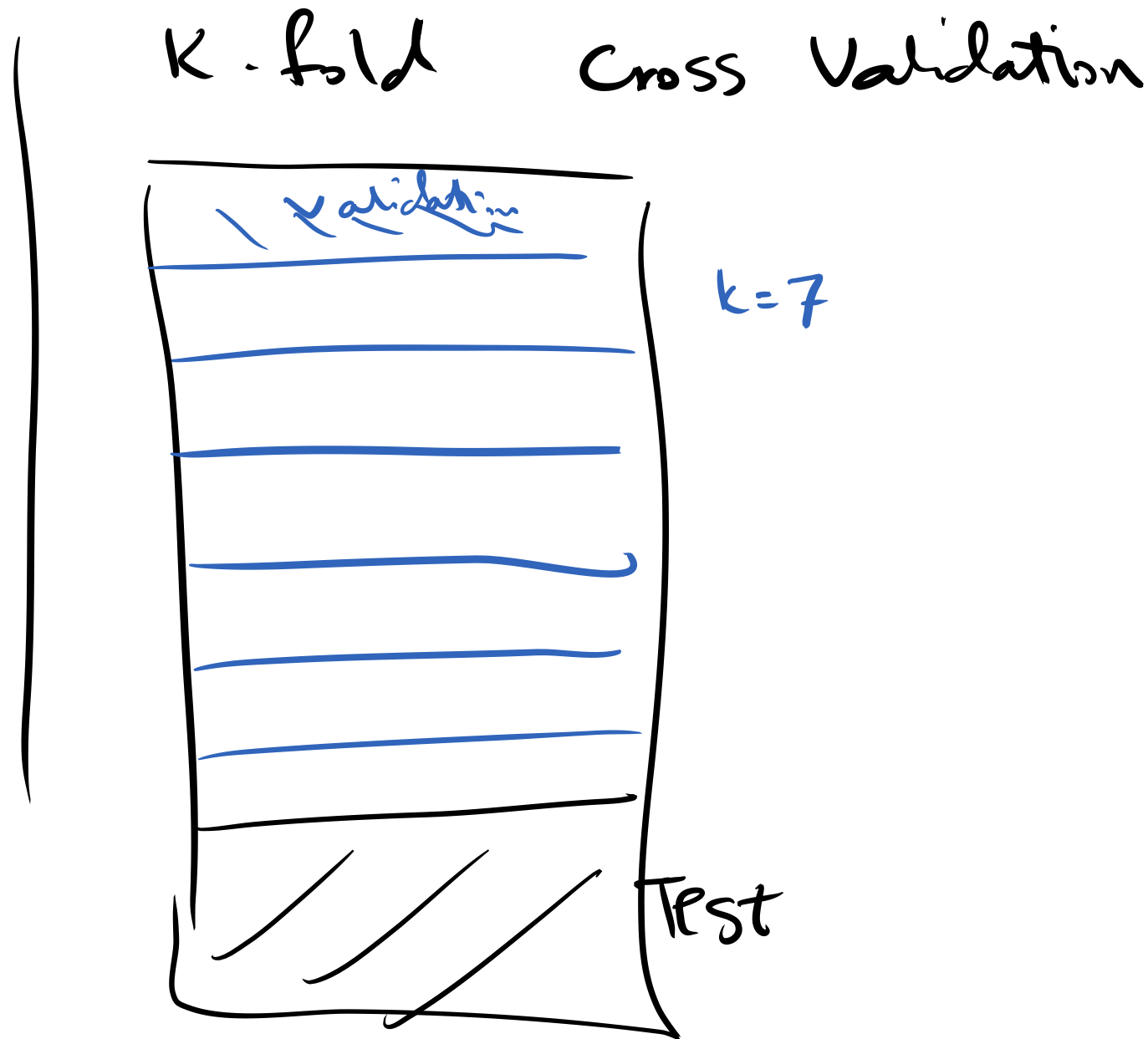
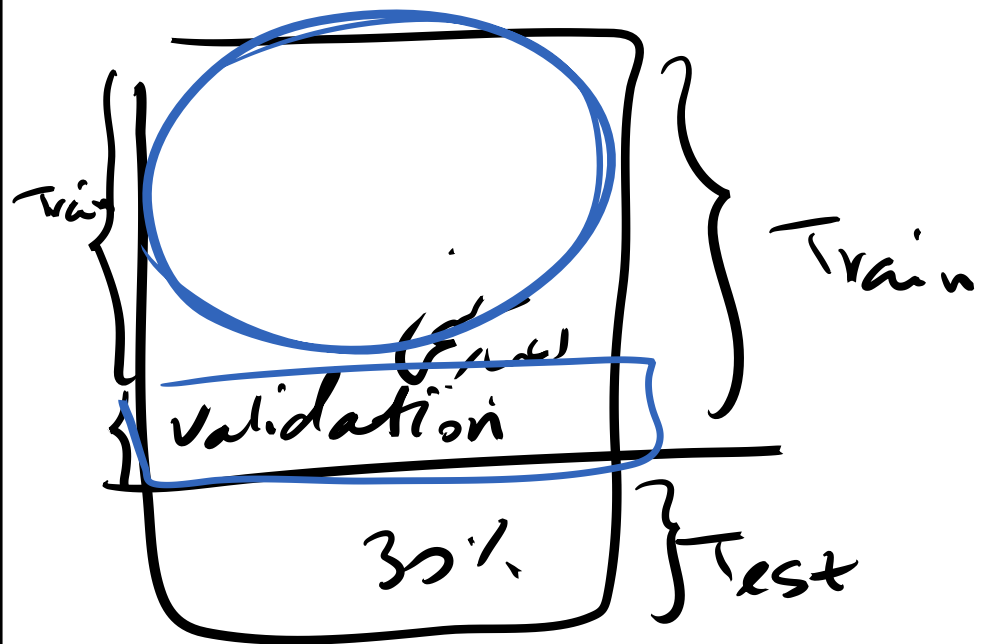


$$\lim_{n \rightarrow 8}$$

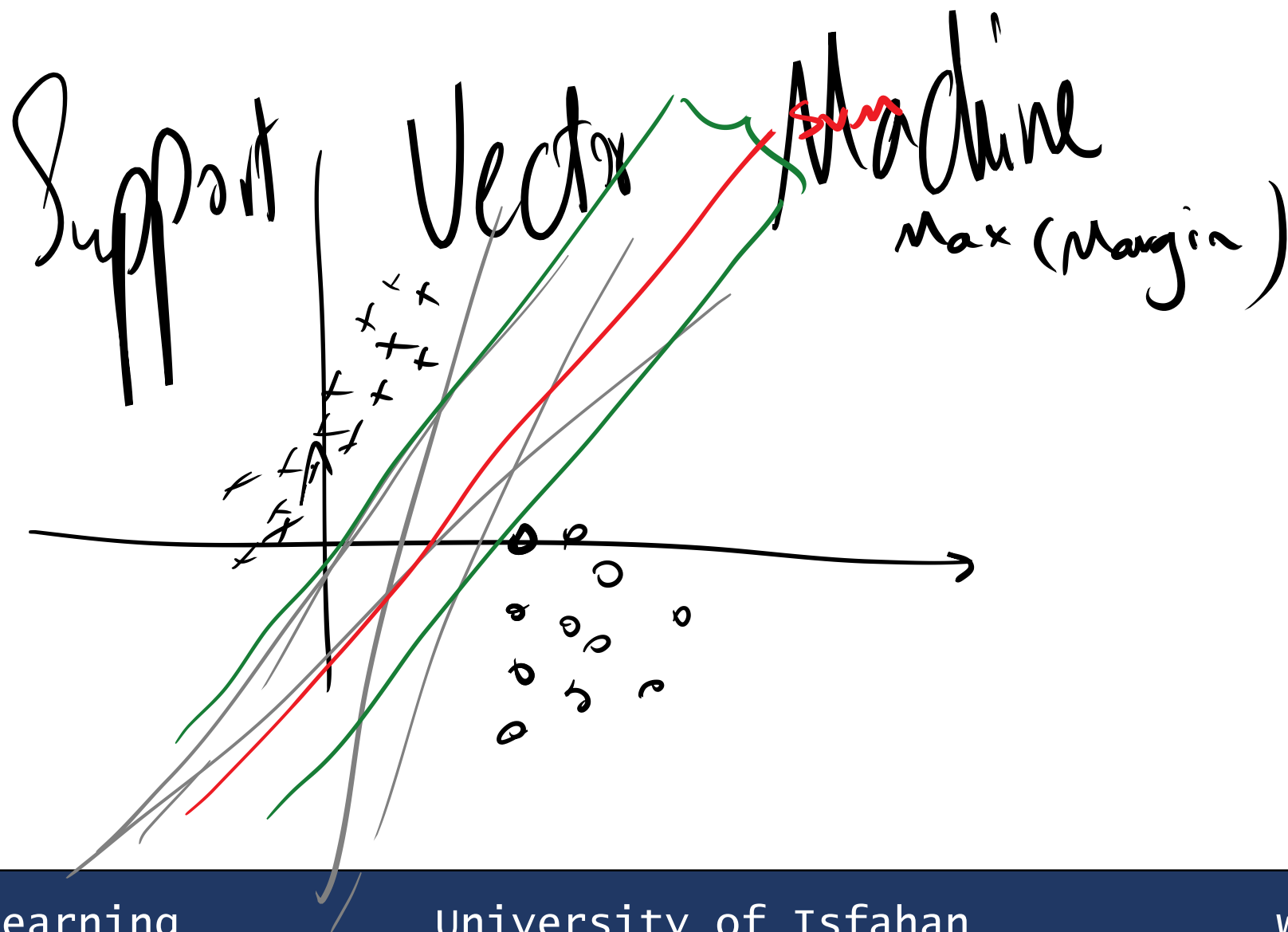
$$\frac{1}{n-8} = \infty$$

$$\lim_{n \rightarrow 5}$$

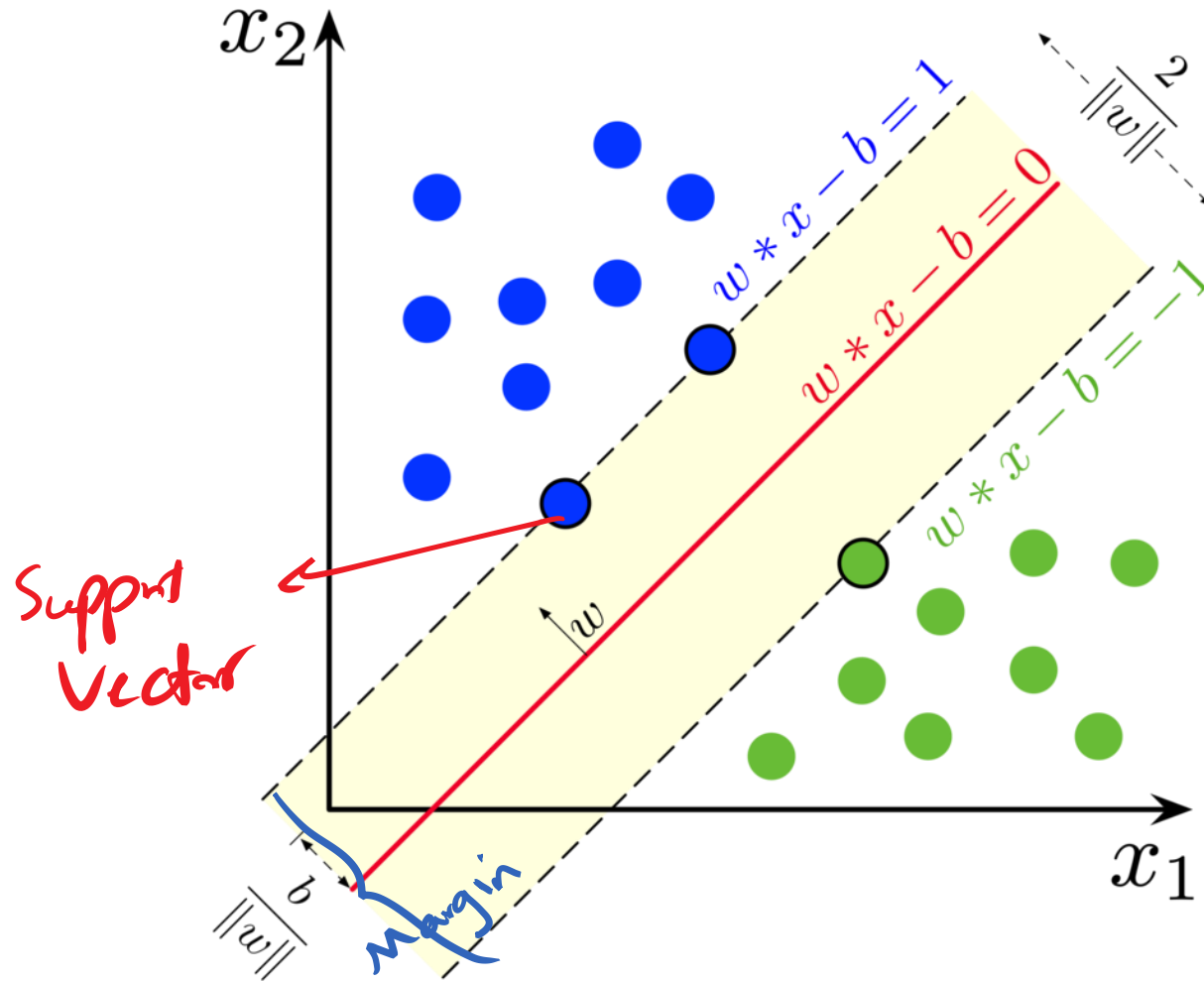
$$\frac{1}{n-5} = \infty$$



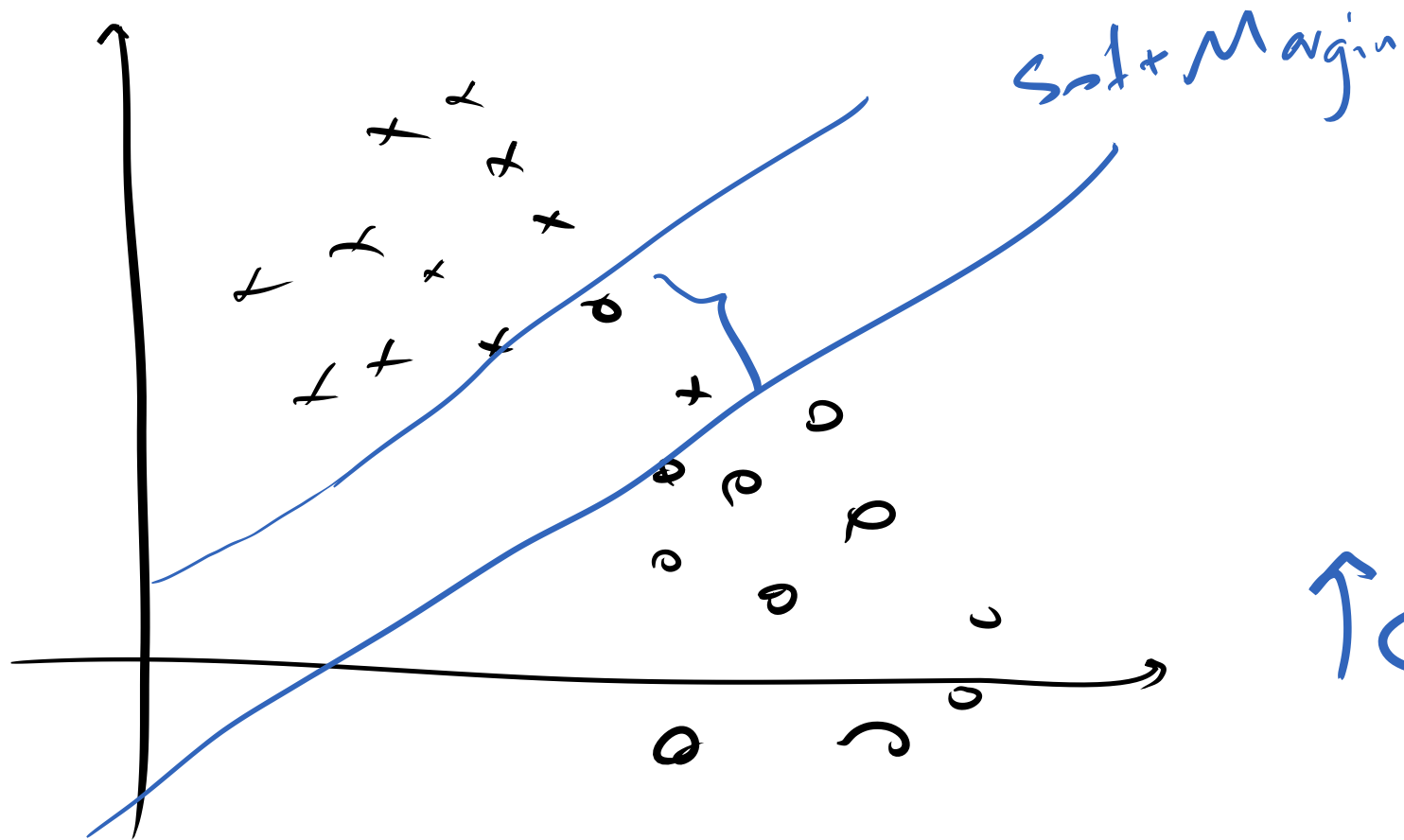
Sum



hard Margin SVM



$$\tilde{w}^T \tilde{x} - \tilde{b} = \phi$$

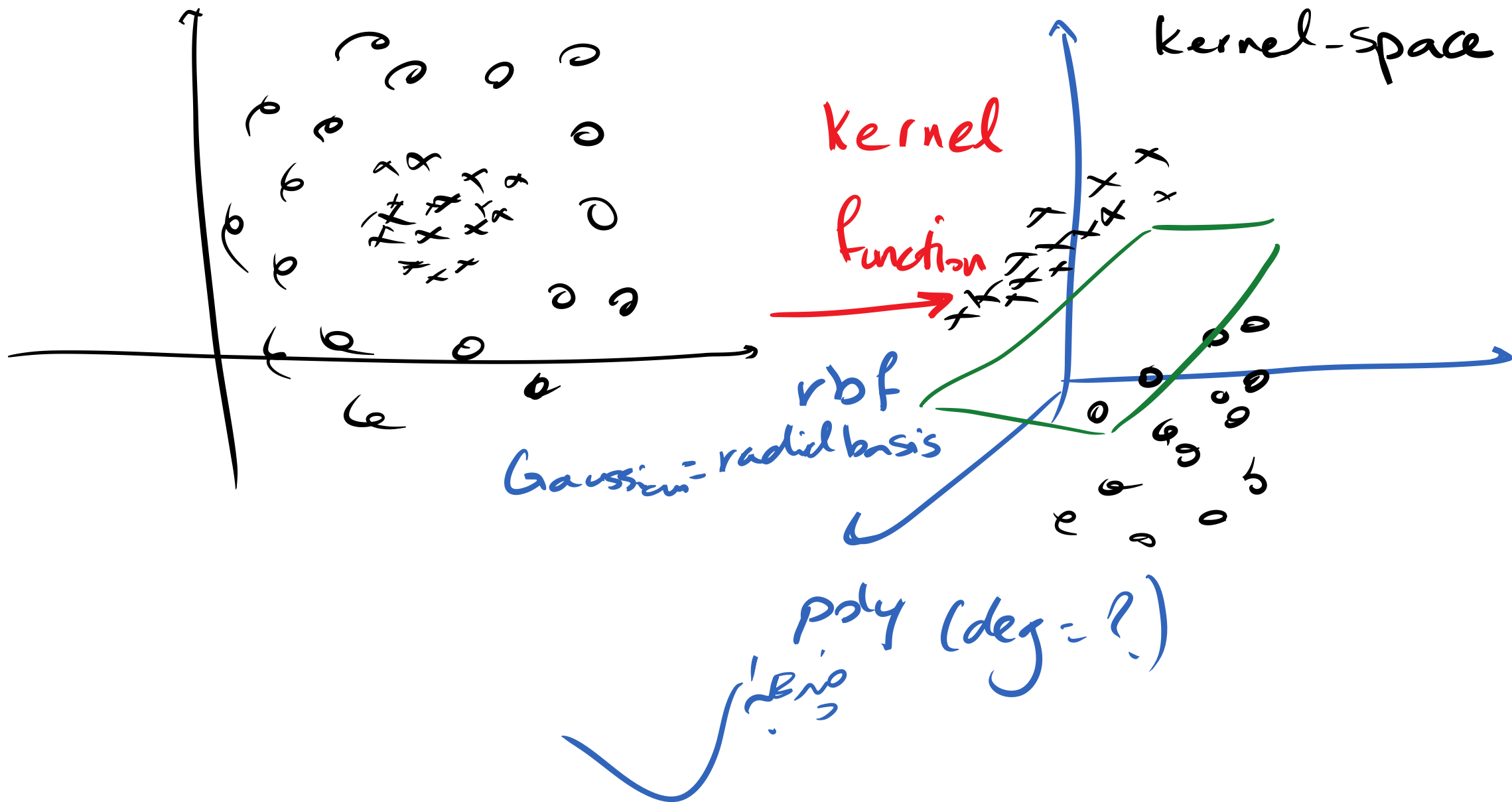


فیت به C

↑ C , Margin ↓ **overfit**

↓ C , Margin ↑

underfit



Multi-class SVM

classificative = ^{تفکیک کننده} _{محدود کننده}

One vs

Rest

→
بدر
غیر فاسد

ovo

ovr

cl1

cl2

cl3

cl4

c1

+

-

-

-

c2

-

+

-

-

c3

-

-

+

-

c4

-

-

-

+

t

-

-

+

-

t2

-

+

-

-

t3

-

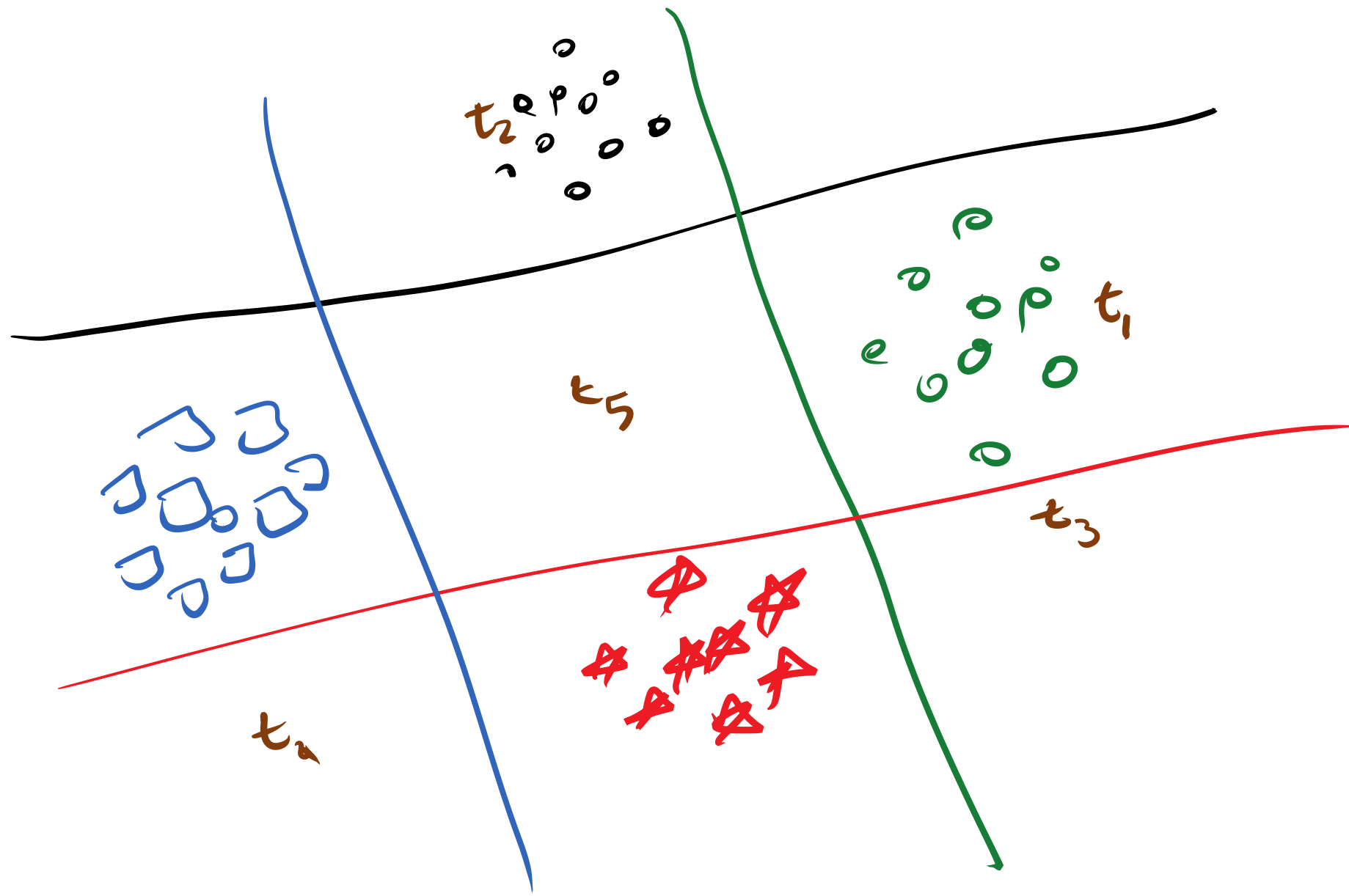
+

+

-

③

→ ②



○ ∨ ○

حاصل‌گیری $\rightarrow \binom{c}{2} = \frac{c(c-1)}{2}$

	c_1	c_2	c_3	c_4	t	t
c_1	+	+	+	+	+	+
c_2	-	-	-	-	-	-
c_3	-	-	-	-	-	-
c_4	-	-	-	-	-	-
t	2	1	4	3	4	4
t	2	3	2	2	3	2

