(3) (4)

(4) High =
$$\int_{0}^{\infty} \int_{0}^{\infty} \int_{0$$

 $-XAY + XTAXW + \lambda W = 0$ $x^{T}Axw^{*} + \lambda w^{*} = x^{T}Ay$ $(x^{T}Ax + I\lambda)w^{*} = x^{T}Ay$ $W^{*} = (x^{T}Ax + I\lambda)^{T}x^{T}Ay$ proved! (D) (C): 17.5 15.0 12.5 10.0 7.5

5.0

2.5

0.0

10⁰

T→0, it is over fit.

10¹