Ex 5.9

Wish to Show:

$$S_{\lambda} = N(N^{T}N + \lambda \Omega_{N})^{-1}N^{T} = (I + \lambda K)^{-1}$$

Where K does not depend on 2.

assuming N is invertible:

$$\Rightarrow$$
 $S_{\lambda} = (I + \lambda K)^{-1}$