	Ex 7.5
	This question is Just a generalisation of Ex. 7.1
	Merc he assume the model to be a linear smoother
	Tather than on linear fit.
	again he will notice that $\sum_{i=1}^{N} Cov(\hat{y}_i, y_i) = trace(\Sigma)$ Where $\Sigma = Cov(\hat{y}, y)$.
	1
	$\Rightarrow \sum_{i=1}^{N} Cov(\hat{y}_i, y_i) = trace(Cov(\hat{y}, y))$
	= trace(cov(Sy,y))
	= trace(S·Cov(y,y))
7	= trace (S. Var (y))
	= trace(5.0=2)
	= $trace(S) \cdot O_{E}^{2}$ (as O_{E}^{2} constant)

•

,

.

.