-	Ex 3.5
	Begin With 3.41:
	$\hat{\beta}^{ridge} = \underset{\beta}{\operatorname{argmin}} \left\{ \sum_{i=1}^{N} (y_i - \beta_0 - \sum_{i=1}^{p} x_{ij}^2 \beta_i)^2 + \lambda \sum_{i=1}^{p} \beta_i^2 \right\}$
	add and Subtant X: here
	Odd and Subtract $\bar{X}_{j}$ here $\Rightarrow \sum_{i} (y_{i} - \beta_{0} - \sum_{j} (x_{ij} + \bar{x}_{j} - \bar{x}_{j})\beta_{j})^{2}$
0	$= \sum_{i} (y_i - \beta_0 - \sum_{j} \bar{x}_j - \sum_{j} (x_{ij} - \bar{x}_j) \beta_j)^2$
	- Giving:
	βriage = argmin { Σ (yi - βo - Σ (xij - Σ)βi)2 + λ Σ βc2}
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	Where: $\beta_0^c = \beta_0 + \sum_j \sum_j$
	$\beta_j^c = \beta_j$ as required.
	Therefore centering the data only effects the coefficient
O.	estimates for the intercept while all others remain
	the Same.
	Clearly the Lasso (3.52) Will have the exact
	Same result.
A	