

Participation credit #3
EE 325 section 1

Show your work

$$\begin{aligned}\hat{\beta}_2 &= \frac{\sum x_i y_i}{\sum x_i^2} \\ &= \frac{\sum x_i Y_i}{\sum X_i^2 - n\bar{X}^2}\end{aligned}$$

Where $x_i = X_i - \bar{X}$ and $y_i = Y_i - \bar{Y}$