8.3: Summary

Whoa! Think of what you've accomplished here: You learned enough calculus to find a minima for an equation with two variables, then applied that to the equation for the $\sum \epsilon^2$. You derived the error minimizing values for $\hat{\alpha}$ and $\hat{\beta}$, then used those formulae in `R` to calculate by hand" the OLS regression for a small dataset.

Congratulate yourself – you deserve it!