

# ProblemSet3

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## Problem 2.6

a.

$$y_i - \hat{y}_i = y_i - \hat{\beta}_0 + \hat{\beta}_1 x_i = y_i - \bar{y} - \hat{\beta}_1 \bar{x} + \hat{\beta}_1 x_i = (y_i - \bar{y}) - \hat{\beta}_1 (x_i - \bar{x})$$