

TABLE 16.7

Preliminary Calculations for the Standard Error of Estimate in Step 1 of Example 16.3

$$\hat{Y} = -0.57X + 5.74$$

In this column, substitute values of X to obtain the predicted values of Y (or \hat{Y})

The squared residual value of Y

Original data points for X and Y

The residual of each score (Y) from its predicted value (\hat{Y})

X	Y	\hat{Y}	$(Y - \hat{Y})$	$(Y - \hat{Y})(Y - \hat{Y})$
9	0	0.61	-0.61	0.37
5	3	2.89	0.11	0.01
8	2	1.18	0.82	0.67
2	5	4.60	0.40	0.16
6	3	2.32	0.68	0.46
3	4	4.03	-0.03	0.00
5	2	2.89	-0.89	0.79
4	3	3.46	-0.46	0.21
				$SS_{\text{residual}} = 2.67$

The sum of the squared residual value of Y from its predicted value (\hat{Y})