



$$\begin{array}{l}
R > 6 = (y - \hat{y})^{T} \cdot (y - \hat{y}) \\
= \left(\begin{bmatrix} \frac{1}{2} \\ \frac{2}{3} \end{bmatrix} - \begin{bmatrix} \frac{23}{14} \\ \frac{14}{3} \end{bmatrix} \right)^{T} \cdot \left(\begin{bmatrix} \frac{1}{2} \\ \frac{2}{3} \end{bmatrix} - \begin{bmatrix} \frac{25}{14} \\ \frac{14}{3} \end{bmatrix} \right) \\
= \begin{bmatrix} \frac{25}{14} \\ \frac{1}{4} \end{bmatrix} \\
R > 5 = \begin{bmatrix} 1.766 \end{bmatrix} \\
2) \hat{\beta}_{0} = \frac{26}{7}, \hat{\beta}_{1} = \frac{-3}{14} \\
\times = \begin{bmatrix} \frac{2}{13} \\ \frac{3}{15} \end{bmatrix} \\
\hat{\gamma}_{1} = \hat{\beta}_{0} + \hat{\beta}_{1} \hat{\gamma}_{1}; \\
\hat{\gamma}_{1} = \frac{26}{7} + \left(\frac{-3}{14} \cdot 2 \right) \\
\hat{\gamma}_{1} = 3.286
\end{array}$$