$$= \begin{pmatrix} 5/6 & 1/3 & 1/6 \\ 1/3 & 1/3 & -1/3 \\ 1/6 & -1/3 & 5/6 \end{pmatrix}$$

$$\frac{\overline{b}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{\overline{y}_{1}}{\overline{y}_{1}} = \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{$$

$$Q = \begin{pmatrix}
\sqrt{2}^{-1} & \sqrt{3}^{-1} \\
0 & \sqrt{3}^{-1}
\end{pmatrix}$$

$$R = Q^{T} A = \begin{pmatrix}
\sqrt{2}^{-1} & 0 & \sqrt{2}^{-1} & 0 \\
\sqrt{3}^{-1} & \sqrt{3}^{-1}
\end{pmatrix}$$

$$= \begin{pmatrix}
\sqrt{2} & \sqrt{2} \\
0 & \sqrt{3}
\end{pmatrix}$$

$$Q R = \begin{pmatrix}
\sqrt{2}^{-1} & \sqrt{3}^{-1} \\
0 & \sqrt{3}^{-1}
\end{pmatrix}$$

$$\begin{pmatrix}
\sqrt{3}^{-1} & \sqrt{2} \\
0 & \sqrt{3}^{-1}
\end{pmatrix}$$

$$= \begin{pmatrix}
\sqrt{2} & \sqrt{2} \\
0 & \sqrt{3}
\end{pmatrix}$$

$$\begin{pmatrix}
\sqrt{2} & \sqrt{2} \\
0 & \sqrt{3}
\end{pmatrix}$$

$$\begin{pmatrix}
\sqrt{3}^{-1} & \sqrt{2} \\
0 & \sqrt{3}^{-1}
\end{pmatrix}$$

$$\begin{pmatrix}
\sqrt{3}^{-1} & \sqrt{2} \\
0 & \sqrt{3}^{-1}
\end{pmatrix}$$

$$\begin{pmatrix}
\sqrt{3}^{-1} & \sqrt{2} \\
0 & \sqrt{3}^{-1}
\end{pmatrix}$$

$$\begin{pmatrix}
\sqrt{3}^{-1} & \sqrt{2} \\
0 & \sqrt{3}^{-1}
\end{pmatrix}$$

$$\begin{pmatrix}
\sqrt{3}^{-1} & \sqrt{2} \\
0 & \sqrt{3}^{-1}
\end{pmatrix}$$

$$= R$$