In Regression:
$$\hat{b} = (x^Tx)^Tx^Ty$$

$$E(\hat{b}) = E(x^Tx)^Tx^Ty) = (x^Tx)^Tx^T \cdot E(y)$$

$$= (x^Tx)^Tx^Tx^Ty = b$$

Solution: Estimable Function

solution vectors:

$$\begin{pmatrix}
6 \\
6
\end{pmatrix} = \begin{bmatrix}
\mu_0 \\
\kappa_1 \\
\kappa_2 \\
\kappa_3
\end{bmatrix}$$

$$\begin{pmatrix}
\kappa_1 \\
\kappa_2 \\
\kappa_3
\end{pmatrix}$$

$$\begin{pmatrix}
\kappa_1 \\
\kappa_2 \\
\kappa_3
\end{pmatrix}$$

$$\begin{pmatrix}
\kappa_2 \\
\kappa_3
\end{pmatrix}$$

$$\begin{pmatrix}
\kappa_3 \\
\kappa_3
\end{pmatrix}$$

Not looking at individual components of solutions of vectors by; but at linear functions of components:

$$(1): \alpha_{1}^{(j)} - \alpha_{2}^{(j)} + l_{2} \cdot p \alpha_{1}^{(j)} + l_{3} \alpha_{2}^{(j)} + l_{4} \alpha_{2}^{(j)}$$

$$= 0 \cdot \mu^{(j)} + l \cdot \alpha_{1} + (-l) \cdot \alpha_{2}^{(j)} + 0 \cdot \alpha_{2}^{(j)}$$

$$= 0 \cdot \mu^{(j)} + l \cdot \alpha_{1} + (-l) \cdot \alpha_{2}^{(j)} + 0 \cdot \alpha_{2}^{(j)}$$