

Assume that $c = c_1 = c_2 \in \mathbb{R} \setminus \{0\}$. Determine the value for $c \in \mathbb{R} \setminus \{0\}$ such that $\mathbf{A}\mathbf{X}$ and $\mathbf{C}\mathbf{X}$ are independent.

NA ✓

Assume that $c_1 = c$ and $c_2 = c^2 - 2$ for some $c \in \mathbb{R}$. Determine the values for $c \in \mathbb{R}$ such that $\mathbf{X}'\mathbf{A}\mathbf{X}$ and $\mathbf{C}\mathbf{X}$ are independent.

1 von 1 Punkt

-2 & 1 ✓

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1 von 1 Punkt

1 ✓

Assume that $\mu = \mathbf{0} \in \mathbb{R}^2$. Find the value for $a \in \mathbb{R} \setminus \{0\}$ such that $a \cdot \mathbf{X}'\mathbf{A}\mathbf{X} \sim \chi^2(2)$, where $\chi^2(d)$ denotes the χ^2 -distribution with $d \in \mathbb{N}$ degrees of freedom.

0.5 Punkte

1 NA

Assume that $\mu = \mathbf{0} \in \mathbb{R}^2$. Find the value for $a \in \mathbb{R} \setminus \{0\}$ such that $a \cdot \mathbf{X}' \mathbf{A} \mathbf{X} \sim \chi^2(1)$.

1 Punkt

0 ✖ 0.25 ✔

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ÜBERSICHT



