Homework 1.3.4.1 For $\chi \in \mathbb{R}^n$ $\chi - \chi = 0 \qquad \text{Aways} \text{ Sometimes / Never}$ Proof: Let χ be arbitrary $\chi - \chi = \chi + (-1) \chi$ <du ->
<duf -> $=\begin{pmatrix} \chi_0 \\ \chi_1 \\ \vdots \\ \dot{\gamma} \end{pmatrix} + \begin{pmatrix} -1 \end{pmatrix} \begin{pmatrix} \chi_0 \\ \chi_1 \\ \vdots \\ \chi_{-1} \end{pmatrix}$ = \begin{align*} \chi_0 & \lefta & \chi_0 \\ \chi_1 & \\ \chi_2 & < vectoraddition> = \(\chi_{0+} \in \chi_{0} \)
\(\chi_{1+} \in \chi_{0} \)
\(\chi_{1+} \in \chi_{0} \)
\(\chi_{1+} \in \chi_{0} \) < real # addition) = (°)