

# Homework 27

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**51**

**52**

**a**

**b**

**c**

**d**

$$\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & -1 & 1 & -1 \\ 1 & 1 & -1 & -1 \\ 1 & -1 & -1 & 1 \end{bmatrix} \begin{bmatrix} a \\ b \\ c \\ d \end{bmatrix} = \begin{bmatrix} a + b + c + d \\ a - b + c - d \\ a + b - c - d \\ a - b - c + d \end{bmatrix}$$

**e**

**f**