1. Find the least-squares solutions of Ax = b where

$$A = \begin{pmatrix} 0 & 1\\ 1 & 1\\ 2 & 1 \end{pmatrix} \qquad b = \begin{pmatrix} 6\\ 0\\ 0 \end{pmatrix}$$

2. Find the least-squares solutions of Ax = b where

$$A = \begin{pmatrix} 2 & 0\\ -1 & 1\\ 0 & 2 \end{pmatrix} \qquad b = \begin{pmatrix} 1\\ 0\\ -1 \end{pmatrix}$$

3. Find the least-squares solutions of Ax = b where

$$A = \begin{pmatrix} 2 & -2 \\ -2 & 2 \\ 5 & 3 \end{pmatrix} \qquad b = \begin{pmatrix} -1 \\ 7 \\ -26 \end{pmatrix}$$