## Homework 23

Solve the following linear systems
(a) $\vec{x}^{\prime}=\left[\begin{array}{rr}-2 & 1 \\ 1 & -2\end{array}\right] \vec{x}$
(b) $\vec{x}^{\prime}=\left[\begin{array}{ll}3 & -2 \\ 2 & -2\end{array}\right] \vec{x}$
(c) $\vec{x}^{\prime}=\left[\begin{array}{rr}1 & -2 \\ 3 & 4\end{array}\right] \vec{x}$
(d) $\vec{x}^{\prime}=\left[\begin{array}{ll}2 & -1 \\ 3 & -2\end{array}\right] \vec{x}$
(e) $\vec{x}^{\prime}=\left[\begin{array}{rrr}1 & 1 & 1 \\ 2 & 1 & -1 \\ -8 & -5 & -3\end{array}\right] \vec{x}$
(f) $\vec{x}^{\prime}=\left[\begin{array}{rrr}1 & -1 & 4 \\ 3 & 2 & -1 \\ 2 & 1 & -1\end{array}\right] \vec{x}$

