Name_____

Mathematics 205: Linear Algebra
Fall Semester 2004
David Haines
Quiz #8
September 22

Suppose $A = \begin{bmatrix} 1 & 1 & -1 \\ 0 & 1 & 2 \\ 2 & 3 & 0 \end{bmatrix}$ and $\mathbf{b} = \begin{bmatrix} 1 \\ 1 \\ 3 \end{bmatrix}$. And suppose that $T(\mathbf{x}) = A\mathbf{x}$.

Find two vectors $\mathbf{x_1}$, and $\mathbf{x_2}$ whose image under T is $\mathbf{b}$.