

MA 35100

HW # 2 - due Friday, September 6

1. Page 38: **T/F Questions**: # 1.14, 1.16, 1.17.
2. Page 39: # 1.55(d)(e) ← Just solve these two linear systems.
3. Page 63: # 1.65(b), i.e., find $\text{RREF}(A)$.
4. If $A = \begin{bmatrix} 1 & 1 \\ 4 & 1 \end{bmatrix}$, find all vectors $\mathbf{x} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} \in \mathbb{R}^2$ (if any) which satisfy

$$A \mathbf{x} = 3 \mathbf{x}.$$