W.D. Henshaw **Math 6800: Problem Set 6** **Due:** Thurs. Nov. 10, 2022.

NLA = the text-book *Numerical Linear Algebra*, by Trefethen and Bau

1. NLA 19.1 *Given* $A \in \mathbb{C}^{m\times n}$ *of rank* n *and* $b \in \mathbb{C}$, *...*

2. NLA 20.1 *Let* $A \in \mathbb{C}^{m\times m}$ *be nonsingular ...*

3. NLA 20.2 *Suppose* $A \in \mathbb{C}^{m\times m}$ *satisfies ...*

4. NLA 21.3 *Consider Gaussian elimination carried out...*

5. NLA 21.4 *Gaussian elimination can be used to compuet the inverse* A^{-1}*...*