ADDITIONAL HOMEWORK PROBLEMS

MATH 22

Find a basis for the Range of T. Compute its dimension and determine whether T is one-to-one and onto. $T: M_{2\times 3} \to M_{2\times 2}$ defined by

$$T\left[\begin{array}{ccc}a_{11} & a_{12} & a_{13}\\a_{21} & a_{22} & a_{23}\end{array}\right] = \left[\begin{array}{ccc}2a_{11} - a_{12} & a_{13} + 2a_{12}\\0 & 0\end{array}\right].$$

Date: October 21, 2015.