

Homework 1 MATH 304 Section 3

Assigned: Friday, September 5.

Potentially Collected: Friday, September 12.

1.

$$A = \begin{bmatrix} 1 & -2 & 0 & 2 \\ 2 & -3 & -1 & 5 \\ 1 & 3 & 2 & 5 \\ 1 & 1 & 0 & 2 \end{bmatrix}$$

a) Find matrices B and C , $B \neq C$, in row echelon form (REF) row equivalent to A .

b) Find a matrix D in reduced row echelon form (RREF) row equivalent to A .

2.

$$2x - y = 5$$

$$4x - 2y = t$$

Find a value t such that the system of linear equation is

a) consistent.

b) inconsistent.