

Name _____

Date _____

Advanced Algebra

Working with Matrix equations Assignment #10

Solve the following 2 by 2 matrix systems by showing all the steps.

Make sure to include the step of naming the Matrix A and showing how the cancelation will work with A^{-1}

$$1) \begin{bmatrix} 2 & -6 \\ 5 & 22 \end{bmatrix} * \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 3 \\ -2 \end{bmatrix}$$

Over for Problem #2

$$2) \begin{bmatrix} 4 & 10 \\ 2 & -16 \end{bmatrix} * \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 40\frac{1}{4} \\ -45\frac{1}{2} \end{bmatrix}$$