

MATH 215
Practice 2.1

Given the linear systems of equations.

$$\begin{array}{rcl} x_1 + 2x_2 + 4x_3 & = & 1 \\ -2x_1 - 3x_2 - 5x_3 & = & 0 \\ 2x_1 + x_2 & = & -2 \end{array}$$

1. Write the linear system as $Ax = b$.

2. Compute A^{-1} .

3. Use A^{-1} to solve $Ax = b$