Math 3120, Linear Algebra, Spring 2026, Worksheet 2

February 2, 2026

Name _____

1. Use elementary operations to find the inverse of the matrix

$$\begin{bmatrix} 1 & 3 \\ 2 & 1 \end{bmatrix}$$

2. Use the previous answer write a solution to

$$x + 3y = 1$$
$$2x + y = 7$$