

Section 1.5 Inverse of Square Matrices

14.

$$\begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} -7 & 5 & 3 \\ 3 & -2 & -2 \\ 3 & -2 & -1 \end{bmatrix} \begin{bmatrix} 5 \\ 3 \\ 8 \end{bmatrix} = \begin{bmatrix} 4 \\ -7 \\ 1 \end{bmatrix}$$

26.

Let B be a matrix such that $A^2B = BA^2 = I$. Then $A(AB) = (BA)A = I$, so A is invertible and $A^{-1} = BA = AB$.