

Name: \_\_\_\_\_  
PCH: Practice Using Matrices to Solve Linear Systems

Date: \_\_\_\_\_  
Ms. Loughran

Solve each of the following using matrices.

$$\begin{aligned} x + 2y - z &= 1 \\ 1. \quad 2x - y + 3z &= 4 \\ 5x + 5z &= 9 \end{aligned}$$

$$\begin{aligned} 3x - 2y + z - 1 &= 0 \\ 2. \quad x - y - z - 2 &= 0 \\ 6x - 4y + 2z - 3 &= 0 \end{aligned}$$

$$\begin{aligned} x + y + z &= 4 \\ 3. \quad x - 2y - z &= 1 \\ 2x - y - 2z &= -1 \end{aligned}$$

$$\begin{aligned} x + y + z &= 6 \\ 4. \quad 2x - y + 3z &= 9 \\ -x + 2y + 2z &= 9 \end{aligned}$$

$$\begin{aligned} 2x - y - 3z &= -1 \\ 5. \quad 2x - y + z &= -9 \\ x + 2y - 4z &= 17 \end{aligned}$$

$$\begin{aligned} 2x - 3y + z &= 5 \\ 6. \quad x + 3y + 8z &= 22 \\ 3x - y + 2z &= 12 \end{aligned}$$

$$\begin{aligned} 3x - 2y + 7z &= 13 \\ 7. \quad x + 8y - 6z &= -47 \\ 7x - 9y - 9z &= -3 \end{aligned}$$

$$\begin{aligned} 2x + y + z &= -2 \\ 8. \quad 2x - y + 3z &= 6 \\ 3x - 5y + 4z &= 7 \end{aligned}$$

$$\begin{aligned} 2x + 3y + z &= 17 \\ 9. \quad x - 3y + 2z &= -8 \\ 5x - 2y + 3z &= 5 \end{aligned}$$

$$\begin{aligned} -x + 2y + 3z &= 11 \\ 10. \quad 2x - 3y &= -6 \\ 3x - 3y + 3z &= 3 \end{aligned}$$