

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

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

Solve each of the following using matrices.

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

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

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

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

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

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

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

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

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

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