

Determine the solution(s), if any, for the system of equations.

1.
$$\begin{aligned} 3x + 2y &= 13 \\ 7z &= 21 \\ 5x - 3y + 2z &= 20 \end{aligned}$$

8.
$$\begin{aligned} x + 2y - 3z &= 2 \\ 2x - 3y + z &= 1 \\ 5x - 4y - z &= 4 \end{aligned}$$

2.
$$\begin{aligned} x - 2y + z &= 0 \\ 2y - 8z &= 8 \\ 5x - 5z &= 10 \end{aligned}$$

9.
$$\begin{aligned} x + 2y - 2z &= 10 \\ 2x + 3y + 2z &= 1 \\ 4x + 5y + 3z &= 4 \end{aligned}$$

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

10.
$$\begin{aligned} x - y + 2z &= 5 \\ 2x - 4y + 5z &= 1 \\ 4x - 2y + 6z &= 2 \end{aligned}$$

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

11.
$$\begin{aligned} x - 2y - z &= 8 \\ 4x - 5y - 2z &= 2 \\ 2x - 6y - 4z &= 2 \end{aligned}$$

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

12.
$$\begin{aligned} x - 2y + 2z &= 2 \\ 2x - 2y + 2z &= 10 \\ 4x - 5y + 6z &= 4 \end{aligned}$$

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

13.
$$\begin{aligned} x + 2y + 3z &= 2 \\ 2x + 2y + 4z &= -10 \\ 3x + 5y + 7z &= 4 \end{aligned}$$

7.
$$\begin{aligned} -3x + 2y + z &= -4 \\ 2x + y - 4z &= 5 \\ x - y - z &= 1 \end{aligned}$$

14.
$$\begin{aligned} x + 2y - 3z &= 10 \\ 2x + 6y - 4z &= -2 \\ 3x + 9y - 7z &= 4 \end{aligned}$$