

Three-Variables Linear Equations ( $ax+by+cz=d$ )

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

$$\begin{aligned}1. \quad & 3x + 1y - 5z = 4 \\& 6x + 5y + 3z = 49 \\& 4x - 3y - 6z = -15\end{aligned}$$

$$\begin{aligned}2. \quad & 3x - 3y + 5z = 10 \\& 3x + 5y - 4z = 56 \\& 4x - 6y + 1z = -14\end{aligned}$$

$$\begin{aligned}3. \quad & 5x - 2y - 2z = 24 \\& 2x - 4y + 1z = 10 \\& 4x + 3y + 5z = 37\end{aligned}$$

$$\begin{aligned}4. \quad & 1x - 3y - 2z = -24 \\& 1x + 3y - 1z = 14 \\& 5x + 5y - 6z = 12\end{aligned}$$

$$\begin{aligned}5. \quad & 1x - 2y - 3z = -25 \\& 6x - 6y + 2z = 28 \\& 1x + 1y + 6z = 56\end{aligned}$$

$$\begin{aligned}6. \quad & 1x - 1y - 1z = -3 \\& 1x + 4y + 1z = 34 \\& 5x - 6y + 3z = 28\end{aligned}$$

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1. 
$$\begin{aligned} 3x + 1y - 5z &= 4 \\ 6x + 5y + 3z &= 49 \end{aligned}$$

$$4x - 3y - 6z = -15$$

$$x = 3$$

$$y = 5$$

$$z = 2$$

2. 
$$\begin{aligned} 3x - 3y + 5z &= 10 \\ 3x + 5y - 4z &= 56 \end{aligned}$$

$$4x - 6y + 1z = -14$$

$$x = 8$$

$$y = 8$$

$$z = 2$$

3. 
$$5x - 2y - 2z = 24$$

$$2x - 4y + 1z = 10$$

$$4x + 3y + 5z = 37$$

$$x = 6$$

$$y = 1$$

$$z = 2$$

4. 
$$\begin{aligned} 1x - 3y - 2z &= -24 \\ 1x + 3y - 1z &= 14 \end{aligned}$$

$$5x + 5y - 6z = 12$$

$$x = 7$$

$$y = 5$$

$$z = 8$$

5. 
$$1x - 2y - 3z = -25$$

$$6x - 6y + 2z = 28$$

$$1x + 1y + 6z = 56$$

$$x = 5$$

$$y = 3$$

$$z = 8$$

6. 
$$\begin{aligned} 1x - 1y - 1z &= -3 \\ 1x + 4y + 1z &= 34 \end{aligned}$$

$$5x - 6y + 3z = 28$$

$$x = 8$$

$$y = 5$$

$$z = 6$$