

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

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

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

$$\begin{aligned}1. \quad & 3x + 5y - 3z = 9 \\& 6x - 1y + 6z = 57 \\& 4x - 6y - 6z = -38\end{aligned}$$

$$\begin{aligned}2. \quad & 2x + 6y + 2z = 54 \\& 5x + 4y + 1z = 50 \\& 2x - 3y - 2z = -17\end{aligned}$$

$$\begin{aligned}3. \quad & 4x + 5y - 2z = 47 \\& 1x + 1y + 3z = 31 \\& 2x + 2y - 2z = 14\end{aligned}$$

$$\begin{aligned}4. \quad & 6x + 3y - 6z = 3 \\& 2x - 1y - 6z = -37 \\& 6x + 5y - 1z = 48\end{aligned}$$

$$\begin{aligned}5. \quad & 3x + 4y + 3z = 52 \\& 4x + 2y + 2z = 38 \\& 1x - 4y - 2z = -32\end{aligned}$$

$$\begin{aligned}6. \quad & 5x - 4y + 5z = 35 \\& 6x + 2y - 3z = 40 \\& 5x - 1y + 6z = 54\end{aligned}$$

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1. 
$$\begin{aligned} 3x + 5y - 3z &= 9 \\ 6x - 1y + 6z &= 57 \end{aligned}$$

$$4x - 6y - 6z = -38$$

$$x = 4$$

$$y = 3$$

$$z = 6$$

2. 
$$2x + 6y + 2z = 54$$

$$5x + 4y + 1z = 50$$

$$2x - 3y - 2z = -17$$

$$x = 4$$

$$y = 7$$

$$z = 2$$

3. 
$$4x + 5y - 2z = 47$$

$$1x + 1y + 3z = 31$$

$$2x + 2y - 2z = 14$$

$$x = 6$$

$$y = 7$$

$$z = 6$$

4. 
$$6x + 3y - 6z = 3$$

$$2x - 1y - 6z = -37$$

$$6x + 5y - 1z = 48$$

$$x = 5$$

$$y = 5$$

$$z = 7$$

5. 
$$3x + 4y + 3z = 52$$

$$4x + 2y + 2z = 38$$

$$1x - 4y - 2z = -32$$

$$x = 4$$

$$y = 7$$

$$z = 4$$

6. 
$$5x - 4y + 5z = 35$$

$$6x + 2y - 3z = 40$$

$$5x - 1y + 6z = 54$$

$$x = 7$$

$$y = 5$$

$$z = 4$$