

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

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

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

$$\begin{aligned}1. \quad & 6x - 6y + 2z = 14 \\& 6x + 1y + 2z = 35 \\& 5x - 1y - 6z = -30\end{aligned}$$

$$\begin{aligned}2. \quad & 1x + 1y + 1z = 15 \\& 1x + 3y + 1z = 25 \\& 4x + 6y + 1z = 55\end{aligned}$$

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

$$\begin{aligned}4. \quad & 4x + 1y - 5z = 25 \\& 6x - 3y + 6z = 42 \\& 6x + 2y + 3z = 49\end{aligned}$$

$$\begin{aligned}5. \quad & 6x - 2y + 1z = 41 \\& 6x + 6y + 4z = 118 \\& 5x + 3y + 1z = 68\end{aligned}$$

$$\begin{aligned}6. \quad & 4x + 5y + 2z = 52 \\& 5x - 1y - 4z = 23 \\& 4x - 3y - 4z = 8\end{aligned}$$

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1.  $6x - 6y + 2z = 14$

$6x + 1y + 2z = 35$

$5x - 1y - 6z = -30$

$x = 3$

$y = 3$

$z = 7$

2.  $1x + 1y + 1z = 15$

$1x + 3y + 1z = 25$

$4x + 6y + 1z = 55$

$x = 5$

$y = 5$

$z = 5$

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

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

$6x - 2y - 1z = 0$

$x = 1$

$y = 2$

$z = 2$

4.  $4x + 1y - 5z = 25$

$6x - 3y + 6z = 42$

$6x + 2y + 3z = 49$

$x = 7$

$y = 2$

$z = 1$

5.  $6x - 2y + 1z = 41$

$6x + 6y + 4z = 118$

$5x + 3y + 1z = 68$

$x = 8$

$y = 7$

$z = 7$

6.  $4x + 5y + 2z = 52$

$5x - 1y - 4z = 23$

$4x - 3y - 4z = 8$

$x = 7$

$y = 4$

$z = 2$