

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

Name: _____

Date: _____ Score: _____

1.
$$\begin{aligned} 5x + 5y + 2z &= 74 \\ 6x + 5y + 5z &= 101 \\ 4x - 6y + 3z &= 9 \end{aligned}$$

2.
$$\begin{aligned} 6x - 1y - 2z &= 11 \\ 2x - 4y + 4z &= 30 \\ 2x + 1y - 4z &= -19 \end{aligned}$$

3.
$$\begin{aligned} 6x - 6y + 6z &= 12 \\ 6x + 1y + 6z &= 26 \\ 4x - 3y - 2z &= 4 \end{aligned}$$

4.
$$\begin{aligned} 3x + 4y + 2z &= 23 \\ 3x + 3y - 3z &= 15 \\ 5x + 2y + 2z &= 23 \end{aligned}$$

5.
$$\begin{aligned} 5x + 4y + 6z &= 47 \\ 1x + 1y + 4z &= 19 \\ 5x + 1y - 5z &= -4 \end{aligned}$$

6.
$$\begin{aligned} 1x - 4y + 5z &= 29 \\ 5x - 4y + 5z &= 61 \\ 3x - 4y + 1z &= 25 \end{aligned}$$

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1. $5x + 5y + 2z = 74$

$6x + 5y + 5z = 101$

$4x - 6y + 3z = 9$

$x = 6$

$y = 6$

$z = 7$

2. $6x - 1y - 2z = 11$

$2x - 4y + 4z = 30$

$2x + 1y - 4z = -19$

$x = 5$

$y = 3$

$z = 8$

3. $6x - 6y + 6z = 12$

$6x + 1y + 6z = 26$

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

$x = 3$

$y = 2$

$z = 1$

4. $3x + 4y + 2z = 23$

$3x + 3y - 3z = 15$

$5x + 2y + 2z = 23$

$x = 3$

$y = 3$

$z = 1$

5. $5x + 4y + 6z = 47$

$1x + 1y + 4z = 19$

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

$x = 1$

$y = 6$

$z = 3$

6. $1x - 4y + 5z = 29$

$5x - 4y + 5z = 61$

$3x - 4y + 1z = 25$

$x = 8$

$y = 1$

$z = 5$