

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

Name: _____

Date: _____ Score: _____

1.
$$\begin{aligned} 5x + 6y - 6z &= 3 \\ 4x - 3y + 6z &= 36 \end{aligned}$$

$$5x - 4y - 2z = -13$$

2.
$$2x + 4y + 4z = 50$$

$$6x + 5y + 3z = 72$$

$$6x + 2y - 2z = 34$$

3.
$$5x - 6y + 3z = 10$$

$$1x - 4y + 6z = 23$$

$$5x + 2y - 3z = 16$$

4.
$$2x + 6y - 5z = 19$$

$$3x - 4y + 5z = 14$$

$$1x + 5y - 6z = 7$$

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

$$1x - 2y + 1z = -7$$

$$5x - 1y - 6z = -27$$

6.
$$5x - 5y - 1z = 21$$

$$1x + 1y - 2z = 3$$

$$4x - 4y - 1z = 16$$

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1.
$$\begin{aligned} 5x + 6y - 6z &= 3 \\ 4x - 3y + 6z &= 36 \\ 5x - 4y - 2z &= -13 \end{aligned}$$

$$\begin{aligned} x &= 3 \\ y &= 4 \\ z &= 6 \end{aligned}$$

2.
$$\begin{aligned} 2x + 4y + 4z &= 50 \\ 6x + 5y + 3z &= 72 \\ 6x + 2y - 2z &= 34 \end{aligned}$$

$$\begin{aligned} x &= 5 \\ y &= 6 \\ z &= 4 \end{aligned}$$

3.
$$\begin{aligned} 5x - 6y + 3z &= 10 \\ 1x - 4y + 6z &= 23 \\ 5x + 2y - 3z &= 16 \end{aligned}$$

$$\begin{aligned} x &= 5 \\ y &= 6 \\ z &= 7 \end{aligned}$$

4.
$$\begin{aligned} 2x + 6y - 5z &= 19 \\ 3x - 4y + 5z &= 14 \\ 1x + 5y - 6z &= 7 \end{aligned}$$

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

5.
$$\begin{aligned} 2x + 4y + 3z &= 47 \\ 1x - 2y + 1z &= -7 \\ 5x - 1y - 6z &= -27 \end{aligned}$$

$$\begin{aligned} x &= 2 \\ y &= 7 \\ z &= 5 \end{aligned}$$

6.
$$\begin{aligned} 5x - 5y - 1z &= 21 \\ 1x + 1y - 2z &= 3 \\ 4x - 4y - 1z &= 16 \end{aligned}$$

$$\begin{aligned} x &= 8 \\ y &= 3 \\ z &= 4 \end{aligned}$$