

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

Name: _____

Date: _____ Score: _____

1.
$$\begin{aligned} 4x - 5y + 4z &= 42 \\ 5x + 4y + 4z &= 65 \\ 6x - 1y - 4z &= -4 \end{aligned}$$

2.
$$\begin{aligned} 5x + 6y - 6z &= 40 \\ 3x - 2y - 6z &= -28 \\ 2x - 5y + 3z &= -27 \end{aligned}$$

3.
$$\begin{aligned} 4x + 1y + 5z &= 44 \\ 4x + 4y - 6z &= -16 \\ 6x + 2y + 6z &= 58 \end{aligned}$$

4.
$$\begin{aligned} 3x + 2y - 1z &= 21 \\ 3x + 1y + 5z &= 19 \\ 4x + 5y + 5z &= 53 \end{aligned}$$

5.
$$\begin{aligned} 1x - 5y + 3z &= -9 \\ 4x + 4y + 1z &= 51 \\ 3x + 2y - 6z &= 13 \end{aligned}$$

6.
$$\begin{aligned} 3x + 1y + 2z &= 37 \\ 5x - 1y - 3z &= 24 \\ 3x + 1y + 3z &= 40 \end{aligned}$$

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

Name: _____

Date: _____ Score: _____

1.
$$\begin{aligned} 4x - 5y + 4z &= 42 \\ 5x + 4y + 4z &= 65 \\ 6x - 1y - 4z &= -4 \end{aligned}$$

$$\begin{aligned} x &= 5 \\ y &= 2 \\ z &= 8 \end{aligned}$$

2.
$$5x + 6y - 6z = 40$$

$$\begin{aligned} 3x - 2y - 6z &= -28 \\ 2x - 5y + 3z &= -27 \end{aligned}$$

$$\begin{aligned} x &= 2 \\ y &= 8 \\ z &= 3 \end{aligned}$$

3.
$$4x + 1y + 5z = 44$$

$$\begin{aligned} 4x + 4y - 6z &= -16 \\ 6x + 2y + 6z &= 58 \end{aligned}$$

$$\begin{aligned} x &= 3 \\ y &= 2 \\ z &= 6 \end{aligned}$$

4.
$$3x + 2y - 1z = 21$$

$$\begin{aligned} 3x + 1y + 5z &= 19 \\ 4x + 5y + 5z &= 53 \end{aligned}$$

$$\begin{aligned} x &= 2 \\ y &= 8 \\ z &= 1 \end{aligned}$$

5.
$$1x - 5y + 3z = -9$$

$$\begin{aligned} 4x + 4y + 1z &= 51 \\ 3x + 2y - 6z &= 13 \end{aligned}$$

$$\begin{aligned} x &= 7 \\ y &= 5 \\ z &= 3 \end{aligned}$$

6.
$$3x + 1y + 2z = 37$$

$$\begin{aligned} 5x - 1y - 3z &= 24 \\ 3x + 1y + 3z &= 40 \end{aligned}$$

$$\begin{aligned} x &= 8 \\ y &= 7 \\ z &= 3 \end{aligned}$$