

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

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

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

1. 
$$\begin{aligned} 6x + 4y + 4z &= 80 \\ 6x - 3y - 5z &= -9 \\ 4x - 6y + 5z &= 24 \end{aligned}$$

2. 
$$\begin{aligned} 6x - 3y + 6z &= 60 \\ 6x + 6y - 1z &= 79 \\ 2x - 4y + 1z &= -3 \end{aligned}$$

3. 
$$\begin{aligned} 5x + 1y + 5z &= 13 \\ 2x - 1y + 6z &= 5 \\ 3x + 5y + 2z &= 20 \end{aligned}$$

4. 
$$\begin{aligned} 2x - 6y + 3z &= -19 \\ 1x + 6y - 1z &= 41 \\ 4x + 2y + 3z &= 45 \end{aligned}$$

5. 
$$\begin{aligned} 2x + 1y + 4z &= 29 \\ 1x - 5y - 2z &= -25 \\ 6x + 6y + 4z &= 78 \end{aligned}$$

6. 
$$\begin{aligned} 2x + 6y - 1z &= 42 \\ 4x + 1y + 2z &= 39 \\ 6x - 1y + 6z &= 65 \end{aligned}$$

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1. 
$$\begin{aligned} 6x + 4y + 4z &= 80 \\ 6x - 3y - 5z &= -9 \\ 4x - 6y + 5z &= 24 \end{aligned}$$

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

2. 
$$6x - 3y + 6z = 60$$

$$\begin{aligned} 6x + 6y - 1z &= 79 \\ 2x - 4y + 1z &= -3 \end{aligned}$$

$$\begin{aligned} x &= 8 \\ y &= 6 \\ z &= 5 \end{aligned}$$

3. 
$$\begin{aligned} 5x + 1y + 5z &= 13 \\ 2x - 1y + 6z &= 5 \\ 3x + 5y + 2z &= 20 \end{aligned}$$

$$\begin{aligned} x &= 1 \\ y &= 3 \\ z &= 1 \end{aligned}$$

4. 
$$\begin{aligned} 2x - 6y + 3z &= -19 \\ 1x + 6y - 1z &= 41 \\ 4x + 2y + 3z &= 45 \end{aligned}$$

$$\begin{aligned} x &= 4 \\ y &= 7 \\ z &= 5 \end{aligned}$$

5. 
$$\begin{aligned} 2x + 1y + 4z &= 29 \\ 1x - 5y - 2z &= -25 \\ 6x + 6y + 4z &= 78 \end{aligned}$$

$$\begin{aligned} x &= 6 \\ y &= 5 \\ z &= 3 \end{aligned}$$

6. 
$$\begin{aligned} 2x + 6y - 1z &= 42 \\ 4x + 1y + 2z &= 39 \\ 6x - 1y + 6z &= 65 \end{aligned}$$

$$\begin{aligned} x &= 4 \\ y &= 7 \\ z &= 8 \end{aligned}$$