Algebra 18: Simultaneous equations with three variables

Example 1

3x + 4y – 2z = 29

2x + y – 3z = 16

4x – y + 4z = 0

Question 1

Solve for x , y and z.

1. 2x + 4y + z = 5

3x – y – z = 2

5x – 6y + 3z = $\frac{-25}{2}$

1. 14x – 7y – z = - 6

6x + z = 2

4x + 3y – 5z = 18

1. $\frac{x}{2 }$ - $\frac{4y}{3}$ + 4z = 3

$ \frac{x}{4}$ – y + $\frac{z}{2}$ = $\frac{-7}{4}$

 X + y + z = $\frac{13}{2}$