

1. Solve the following system of equations for all the variables:

$$\begin{aligned}2r - 5b + 2c &= 15 \\7r + 9b - 5c &= 48 \\-3r - 10b - 7c &= -103\end{aligned}$$

2. Solve the following system of equations for all the variables:

$$\begin{aligned}8i - 7y + 7s &= 83 \\-10i - y + 3s &= -63 \\10i + 6y - 5s &= 26\end{aligned}$$

3. Solve the following system of equations for all the variables:

$$-5j + 8s - 7k = -22$$

$$10j - 9s - 8k = -24$$

$$9j + 3s - 3k = 66$$

4. Solve the following system of equations for all the variables:

$$\begin{aligned} -8x - 6v + 3w &= 30 \\ -6x - 7v - 7w &= 66 \\ -6x + 9v + 2w &= -112 \end{aligned}$$