

Matrices M8: Solving Systems of Equations

Write each system of equations in matrix form.

1.
$$\begin{aligned} 4x + 2y &= 5 \\ 3x + 6y &= 8 \end{aligned}$$

2.
$$\begin{aligned} x - 3y &= 7 \\ 4x + \frac{1}{2}y &= 8 \end{aligned}$$

3.
$$\begin{aligned} x &= 5 \\ -2x + 7y &= 18 \end{aligned}$$

4.
$$\begin{aligned} y &= 2x + 4 \\ y &= 7x - 9 \end{aligned}$$

Solve each system of equations using matrices.

5.
$$\begin{aligned} 2x + 3y &= 1 \\ 3x + 4y &= 2 \end{aligned}$$

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

7.
$$\begin{aligned} -x + y &= 4 \\ -x - y &= 6 \end{aligned}$$

8.
$$\begin{aligned} 3x - y &= 4 \\ x + y &= 6 \end{aligned}$$

9.
$$\begin{aligned} 2x + 0.5y &= 1 \\ 4x - 4y &= -3 \end{aligned}$$

10.
$$\begin{aligned} 7x - 3y &= 4 \\ -5x + 2y &= 6 \end{aligned}$$