



Air maths tuition

Interact. engage and perform

## Simultaneous Equations - Elimination method - Tutorial 2

$$\begin{array}{l} \textcircled{1} \quad 2x + 3y = 7 \\ \textcircled{2} \quad 2x + y = 5 \end{array}$$

$$\begin{array}{l} \textcircled{1} - \textcircled{2}: \quad \therefore 2y = 2 \\ \qquad \qquad \qquad |+3y \quad -y = 2y \\ \qquad \qquad \qquad \therefore y = 1 \end{array}$$

Sub. into \textcircled{2}:

$$2x + 1 = 5$$

$$\therefore 2x = 4$$

$$\therefore x = 2$$

$$\therefore x = 2, y = 1$$

$$\begin{array}{l} \textcircled{1} \quad x + y = 6 \\ \textcircled{2} \quad x - y = 2 \end{array} \left. \begin{array}{l} x=4, y=2 \\ x=2, y=1 \end{array} \right\}$$

$$\begin{array}{l} \textcircled{3} \quad 3x - 2y = 7 \\ \textcircled{4} \quad 5x + 2y = 17 \end{array} \left. \begin{array}{l} x=3, y=1 \\ x=3, y=2 \end{array} \right\}$$

$$\begin{array}{l} \textcircled{5} \quad 5x + 4y = 13 \\ \textcircled{6} \quad 5x + 3y = 22 \end{array} \left. \begin{array}{l} x=1, y=2 \\ x=4, y=3 \end{array} \right\}$$

With the acknowledgement of [Exam Solutions](#).  
Find lots more revision sheets on [Air Maths Tuition](#).

[This Video](#)



Exam **Solutions**  
maths made easy