

## 3.1) Linear simultaneous equations

## Worked example

Solve:

$$-5x - 2y = -26$$

$$-5x - 4y = -32$$

$$-2x - 3y = -17$$

$$-5x - 3y = -20$$

## Your turn

Solve:

$$-3x - 2y = -12$$

$$-7x - 2y = -20$$

$$x = 2, y = 3$$

## Worked example

Solve:

$$\begin{aligned}5x + 4y &= 23 \\ -5x + 2y &= 19\end{aligned}$$

$$\begin{aligned}5x + 3y &= 23 \\ 2x - 3y &= 5\end{aligned}$$

## Your turn

Solve:

$$\begin{aligned}6x + 8y &= 22 \\ -6x + 2y &= 28\end{aligned}$$

$$x = -3, y = 5$$

## Worked example

Solve:

$$2x + 3y = 11$$

$$3x + y = 13$$

$$3x + 2y = 9$$

$$5x + 7y = 4$$

## Your turn

Solve:

$$2x + 3y = 9$$

$$5x + 7y = 23$$

$$x = 6, y = -1$$

## Worked example

Solve:

$$y = 4x - 9$$
$$5y - 3x = 23$$

## Your turn

Solve:

$$y = 2x - 3$$
$$9y - 4x = 1$$
$$x = 2, y = 1$$

## Worked example

Solve:

$$\begin{aligned}y &= 4x - 9 \\ -5y - 3x &= -1\end{aligned}$$

## Your turn

Solve:

$$\begin{aligned}y &= 2x - 3 \\ -9y - 4x &= -17 \\ x = 2, y &= 1\end{aligned}$$