

# Equations and Inequalities

## Simultaneous Equations

You will need the substitution method when one of the equations is quadratic.

You will end up with 0, 1 or 2 answers as with any Quadratic.

→ This means you will either get 0, 1 or 2 pairs of answers

Sub each value for  $y$  into one of the equations

$$\begin{array}{l} x + 2y = 3 \\ y = -1/2 \quad \swarrow \quad \searrow y = -1 \\ x + (-1) = 3 \quad x + (-2) = 3 \\ x = 4 \quad \quad \quad x = 5 \end{array}$$

$$x = 4, y = -1/2$$

$$x = 5, y = -1$$

## Example

Solve the following Simultaneous Equations by Substitution

$$\begin{array}{l} 1 \quad x + 2y = 3 \quad \xrightarrow{\text{Re-arrange}} \quad x = 3 - 2y \\ 2 \quad x^2 + 3xy = 10 \end{array}$$

Replace the 'x' in equation 2, with '3 - 2y'

$$\begin{array}{l} 2 \quad x^2 + 3xy = 10 \\ (3 - 2y)^2 + 3y(3 - 2y) = 10 \\ 9 - 12y + 4y^2 + 9y - 6y^2 = 10 \\ -2y^2 - 3y - 1 = 0 \\ 2y^2 + 3y + 1 = 0 \\ (2y + 1)(y + 1) = 0 \\ y = -\frac{1}{2} \quad \text{or} \quad y = -1 \end{array}$$

Expand Brackets  
Simplify  
Multiply by -1  
Factorise  
Solve

# Equations And Inequalities Topic Test E2020 Answers

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