

## National 5 Maths Simultaneous Equations (routine types)

SQA past paper and specimen paper  
questions and answers by topic

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**National 5 Maths**  
**SQA 2015 Paper 1**  
**Question 11**

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Solve algebraically the system of equations

$$3x + 2y = 17$$

$$2x + 5y = 4.$$

**3**

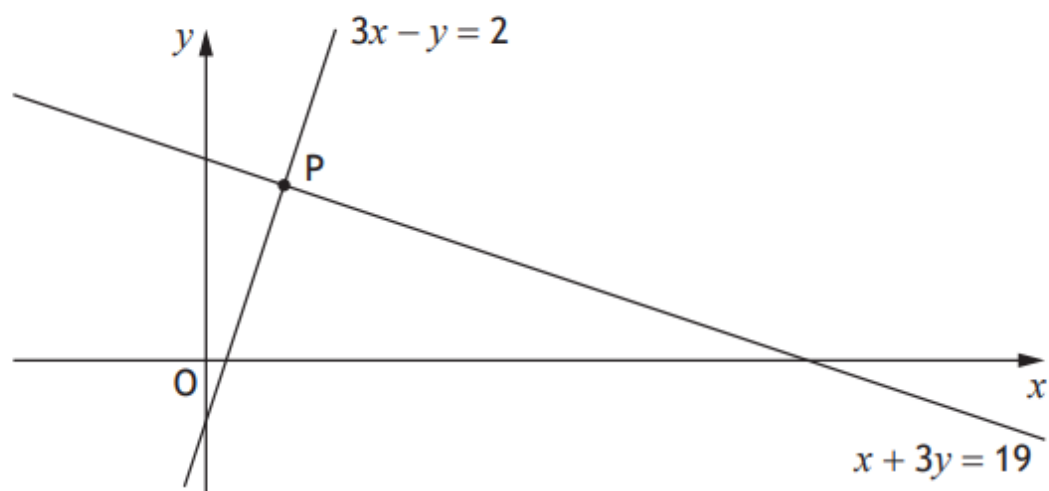
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Answer:

$$x = 7, y = -2$$

The graph below shows two straight lines with the equations:

- $3x - y = 2$
- $x + 3y = 19$



The lines intersect at the point P.

Find, algebraically, the coordinates of P.

3

Answer:

(2.5, 5.5)

National 5 Maths  
SQA 2018 Paper 1  
Question 3

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Solve, algebraically, the system of equations

$$4x + 5y = -3$$

$$6x - 2y = 5.$$

3

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Answer:

$$x = \frac{1}{2}, y = -1$$

National 5 Maths  
SQA 2021 Paper 1  
Question 7

Solve, algebraically, the system of equations

$$5c + 2d = 4$$

$$4c - 3d = 17$$

3

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Answer:

$$c = 2, d = -3$$

**National 5 Maths**  
**SQA 2023 Paper 1**  
**Question 3**

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Solve, algebraically, the system of equations

$$2x + 3y = 8$$

$$5x + 2y = -2.$$

**3**

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Answer:

$$x = -2$$

$$y = 4$$