



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

Solve algebraically the system of equations

$$3x + 2y = 17$$

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

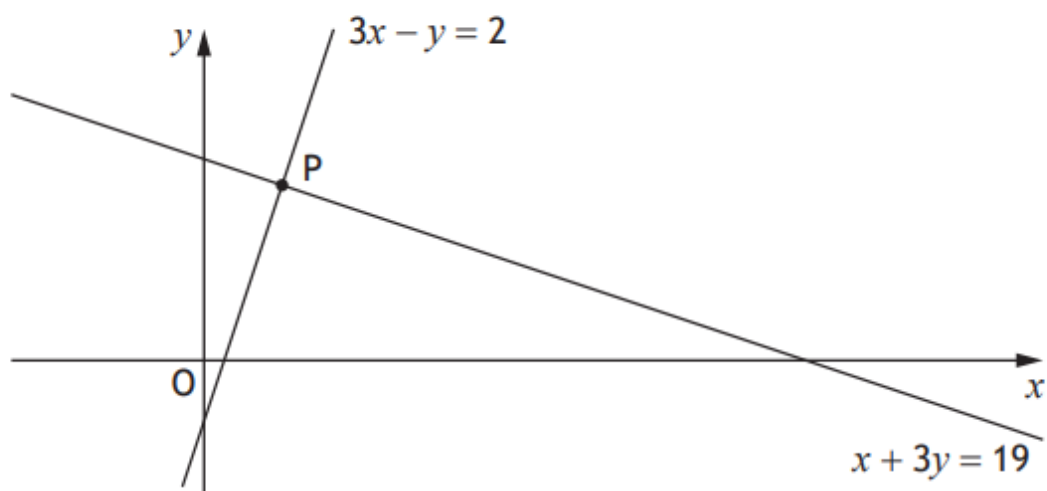
3

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

Solve, algebraically, the system of equations

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

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

3

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

Answer:

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

National 5 Maths
SQA 2023 Paper 1
Question 3

Solve, algebraically, the system of equations

$$2x + 3y = 8$$

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

3

Answer:

$$x = -2$$

$$y = 4$$

National 5 Maths
SQA 2024 Paper 1
Question 7

Solve, algebraically, the system of equations

$$2p - 7r = 11$$

$$3p + 2r = 4$$

3

Answer:

$$p = 2$$

$$r = -1$$