

Linear simultaneous equations

Question 1

Solve the simultaneous equations

$$4x + 2y = 9x - 4y = 9$$

.....

(3 marks)

Question 2

Solve the simultaneous equations

$$5x + y = 21x - 3y = 9$$

.....

(3 marks)

Question 3

Solve these simultaneous equations algebraically.

$$3x - 2y = 17$$

$$4x + 3y = 17$$

.....

(4 marks)

Question 4

Solve the simultaneous equations

$$x + 3y = 12$$

$$5x - y = 4$$

.....

(3 marks)

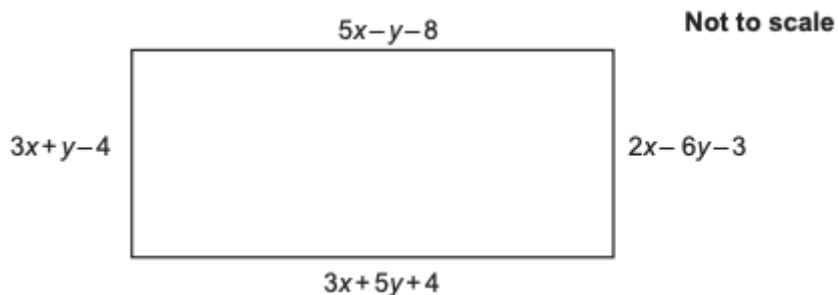
Question 5

If $6x - y = 21$ and $6y - x = 14$, what is the value of $x - y$?

$$x - y = \dots\dots\dots$$

Question 6

The dimensions, in centimetres, of this rectangle are shown as algebraic expressions.



Work out the length and width of the rectangle.

$$\text{length} = \dots\dots\dots \text{ cm}$$

$$\text{width} = \dots\dots\dots \text{ cm}$$

(6 marks)

Question 7

The n th term of a sequence is given by $an^2 + bn$ where a and b are integers.

The 2nd term of the sequence is -2 The 4th term of the sequence is 12

Find the 6th term of the sequence.

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(4 marks)
