2.17 Introduction to Simultaneous Equations: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Solve the simultaneous equations.

$4x + 2y = 18$

$2x + 2y = 4$

(3)

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2 Is $x = 3$, $y = 3$ a solution of both of these equations? Show your working.

$x + 3y = 12$

$2x - y = 4$

(2)

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3 Solve the simultaneous equations.

$5x + 4y = -11$

$x + 2y = -1$

(4)

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Mark scheme · 2.17 Introduction to Simultaneous Equations: 10-minute Pack

Question 1

adds or subtracts the equations to eliminate one letter	**M1**
x = 7 (or y = -5) correct	**A1**
x = 7, y = -5 cao	**A1**

Answer: **x = 7, y = -5**

Question 2

substitutes both values into one equation	**M1**
No, with both equations checked	**A1**

Answer: **No**

Question 3

multiplies one or both equations so that one letter has matching coefficients	**M1**
eliminates a letter correctly	**M1**
one correct value	**A1**
x = -3, y = 1 cao	**A1**

Answer: **x = -3, y = 1**

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