Lesson 11

GCSE Mathematics Simultaneous Equations I

11.1 Introducing Fraction Answers

Solve these pairs of simultaneous equations; This is a 'random' collection of problems. Some answers are negative, and some are decimal fractions.

11.2 Exercise

Marks Available : 60

Question 1

2x + y = 4x - y = 5

[5 marks]

Question 2

5x + 2y = 113x + 4y = 8

[5 marks]

Question 3

 $\begin{array}{l}
4x + 2y = 14 \\
2x + 3y = 15
\end{array}$

[5 marks]

Question 4

 $3x - 4y = 4.5 \\ 2x + 2y = 10$

[5 marks]

Question 5

$\begin{array}{c} x - 2y = 4 \\ 3x - y = -3 \end{array}$

[5 marks]

Question 6

3x + 2y = 22x + 6y = 13

[5 marks]

Question 7 2x - 5y = 4 x - 4y = 5

[5 marks]

Question 8

 $\begin{array}{l}
6x + 2y = 14 \\
3x - 5y = 10
\end{array}$

[5 marks]

Question 9

2x + 4y = 15x + 5y = 21

[5 marks]

Question 10 x - 5y = 153x - 7y = 17

[5 marks]

Question 11

3x - y = 5x + 3y = -20

[5 marks]

Question 12

5x + 4y = 112x + 3y = 9

[5 marks]

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Teachers may obtain detailed worked solutions to the exercises by email from mhh@shrewsbury.org.uk