Lesson 12

GCSE Mathematics Simultaneous Equations I

12.1 Vicious Questions

Solve these VICIOUS pairs of simultaneous equations;

12.2 Exercise

Marks Available : 36

Question 1

 $5x - 6y = -20 \\ -3x - 6y = -36 \end{cases}$

Hint : Multiply the lower equation by -1

[6 marks]

Question 2 4y - 5x = 2-2y - 5x = -16

[6 marks]

Question 3

3y + 7x = 8- 3y + 7x = 20

[6 marks]

Question 4

8 <i>x</i>	+	3у	=	-23
-5x	_	3у	=	$\left. \begin{array}{c} -23 \\ 11 \end{array} \right\}$

Question 5

$$\begin{array}{rcl}
-7y - 4x &= -31 \\
3y - 4x &= & 19
\end{array}$$

[6 marks]

Question 6

 $\begin{array}{l}
6x - 4y = 4 \\
4x - 4y = -4
\end{array}$

[6 marks]

This document is a part of a **Mathematics Community Outreach Project** initiated by Shrewsbury School It may be freely duplicated and distributed, unaltered, for non-profit educational use In October 2020, Shrewsbury School was voted "**Independent School of the Year 2020**" © 2021 Number Wonder Teachers may obtain detailed worked solutions to the exercises by email from mhh@shrewsbury.org.uk