### 12.1 Vicious Questions

Solve these VICIOUS pairs of simultaneous equations;

### 12.2 Exercise

Marks Available : 36

## Question 1

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

Hint : Multiply the lower equation by -1

## Question 2

$\left.\begin{array}{rl}4 y-5 x & = \\ -2 y-5 x & = \\ -16\end{array}\right\}$

## Question 3

$3 y+7 x=8$
$-3 y+7 x=20\}$

Question 4
$8 x+3 y=-23$
$-5 x-3 y=11\}$

## Question 5

$\left.\begin{array}{rr}-7 y-4 x= & -31 \\ 3 y-4 x= & 19\end{array}\right\}$

## [ 6 marks ]

## Question 6

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

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

