## Lesson 6

GCSE Mathematics Simultaneous Equations I

### 6.1 Awkward Subtraction Problems

Solve these TRICKY pairs of simultaneous equations by SUBTRACTION;

### 6.2 Exercise

$$
\text { Marks Available : } 24
$$

## Question 1

$6 y+5 x=-2$
$2 y+5 x=-14$

Careful !!
$(-2)-(-14)=12$

## Question 2

$\left.\begin{array}{rl}5 y+5 x & =-5 \\ 2 y+5 x & =-17\end{array}\right\}$

## Question 3

$\left.\begin{array}{l}7 y+4 x=2 \\ 5 y+4 x=-2\end{array}\right\}$

## Question 4

$$
\left.\begin{array}{l}
8 y+3 x=-9 \\
4 y+3 x=3
\end{array}\right\}
$$

## Question 5

$\left.\begin{array}{l}6 y+2 x=-28 \\ 2 y+2 x=-12\end{array}\right\}$

Question 6

$$
\left.\begin{array}{l}
2 y+9 x=19 \\
2 y+2 x=-2
\end{array}\right\}
$$

## Question 7

$$
\left.\begin{array}{r}
8 y+5 x=-14 \\
8 y+2 x=4
\end{array}\right\}
$$

## Question 8

$$
\left.\begin{array}{rl}
3 y+7 x & =-28 \\
3 y+x & =-22
\end{array}\right\}
$$

