### 3.1 Mixed Combination Problems

Solve these pairs of simultaneous equations.

- Subtract the equations when the identical terms have the same sign.
- Add the equations when the identical terms have opposite signs.


### 3.2 Exercise

Marks Available : 18
Question 1
$4 x+3 y=41$
$2 x+3 y=25\}$

## Question 2

$6 x+4 y=16$
$2 x-4 y=16\}$

## Question 3

$5 y-3 x=7$
$2 y+3 x=28\}$

## Question 4

$$
\left.\begin{array}{r}
y+x=-1 \\
-y+x=-5
\end{array}\right\}
$$

Question 5

$$
\left.\begin{array}{rr}
4 y-5 x= & 17 \\
-2 y+5 x= & -11
\end{array}\right\}
$$

## Question 6

$-3 x-4 y=10$
$-2 x+4 y=-20\}$

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In October 2020, Shrewsbury School was voted "Independent School of the Year 2020"
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Teachers may obtain detailed worked solutions to the exercises by email from mhh@shrewsbury.org.uk

