#### 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**

$$4x + 3y = 41$$
$$2x + 3y = 25$$

[ 3 marks ]

### **Question 2**

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

[3 marks]

### **Question 3**

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

#### **Question 4**

[ 3 marks ]

# **Question 5**

$$4y - 5x = 17 
-2y + 5x = -11$$

[3 marks]

# **Question 6**

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

[ 3 marks ]