Lesson 8

8.1 Adjust and Subtract

To solve these pairs of simultaneous equations;

FIRST : Change one of the equations to obtain identical terms and with same signs.

SECOND : Eliminate the identical terms by **SUBTRACTION**.

8.2 Exercise

Marks Available : 36

Question 1

$$\left. \begin{array}{l} 5y + 4x = 33 \\ 2y + 2x = 14 \end{array} \right\}$$

[**4 marks**]

Question 2

$$\left. \begin{array}{l} 7y + 9x = 50 \\ 2y + 3x = 16 \end{array} \right\}$$

[**4 marks**]

Question 3

$$\left. \begin{array}{l} 6y + 11x = 9 \\ 3y + 3x = -3 \end{array} \right\}$$

Be careful !

$$(9) - (-6) = 15$$

[**4 marks**]

Question 4

$$4y + 7x = -14$$
$$2y + 3x = -8$$

Be careful !

$(-14) - (-16) = $ ____

[4 marks]

Question 5

$$5y + 6x = 26$$
$$10y + 7x = 22$$

[4 marks]

Question 6

$$3y + 4x = 8$$
$$12y + 5x = 43$$

[4 marks]

Question 7

$$\left.\begin{array}{rcl} 2y + 7x &=& 17 \\ 8y + 9x &=& 11 \end{array}\right\}$$

<div align="right">[4 marks]</div>

Question 8

$$\left.\begin{array}{rcl} 5y + 3x &=& 14 \\ 2y + 6x &=& -4 \end{array}\right\}$$

<div align="right">[4 marks]</div>

Question 9

$$\left.\begin{array}{rcl} 12y + 11x &=& 104 \\ 3y + 2x &=& 23 \end{array}\right\}$$

<div align="right">[4 marks]</div>