7.1 Adjust and Add

To solve these pairs of simultaneous equations;

FIRST: Change one of the equations to obtain identical terms but with opposite signs.

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

7.2 Exercise

Marks Available: 36

Question 1

$$4x - 2y = 14
3x + 4y = 5$$

[4 marks]

Question 2

$$\begin{cases}
7x - y = 5 \\
8x + 3y = 14
\end{cases}$$

[4 marks]

Question 3

$$\begin{cases}
11x - 4y = 41 \\
3x + y = 7
\end{cases}$$

Question 4

$$6x + 4y = 28
-2x + 3y = 8$$

[4 marks]

Question 5

$$12x + y = 27$$

$$5x - 2y = 4$$

[4 marks]

Question 6

$$10y - 5x = 85 11y + 10x = -108$$

Question 7

$$8y + 9x = 21
5y - 3x = -30$$

[4 marks]

Question 8

$$5y - 2x = 46$$
$$4y + x = 29$$

[4 marks]

Question 9

$$20y + 7x = 67 -10y + 9x = -21$$

[4 marks]