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Directions: Solve the systems of equations by graphing

1)  $y = -\frac{2}{3}x - 1$   
 $y = \frac{1}{3}x - 2$

2)  $y = 2x - 1$   
 $y = -2x - 2$

3)  $y = \frac{1}{2}x - 1$   
 $y = \frac{1}{4}x - 2$

Chapter 6

**6.1 SIMPLE ELIMINATION METHOD**

We have seen that simultaneous linear equations can be solved by using graphs. We shall now learn how they can be solved by using an algebraic method known as the elimination method.

*Examples*

(a) Consider these simultaneous linear equations.

$$\begin{aligned} 6x + 4y &= 24 && \text{..... (1)} \\ 7x - 4y &= 2 && \text{..... (2)} \end{aligned}$$

As the terms  $+4y$  and  $-4y$  are found in equation (1) and equation (2), the variable  $y$  can be eliminated easily by forming a new equation as follows:

$$\begin{aligned} (1) + (2): \quad (6x + 4y) + (7x - 4y) &= 24 + 2 && \text{..... (3)} \\ 13x &= 26 \\ \therefore x &= 2 \end{aligned}$$

Notice that the left-hand side of equation (3) is the sum of the left-hand sides of equations (1) and (2). The right-hand side of equation (3) is similarly obtained.

To find the value of  $y$ , we take  $x$  to be 2 in either equation (1) or equation (2). Thus if we replace  $x$  by 2 in equation (1), we have

$$\begin{aligned} (6 \times 2) + 4y &= 24 \\ 12 + 4y &= 24 \\ 4y &= 24 - 12 \\ 4y &= 12 \\ \therefore y &= \frac{12}{4} \\ &= 3 \end{aligned}$$

$\therefore$  the solutions are  $x = 2$  and  $y = 3$ .

*Check:*  $7x - 4y = 7 \times 2 - 4 \times 3 = 2$ , as in equation (2).

*Note:* We use equation (2) for the check because the value of  $y$  was found by putting  $x = 2$  in equation (1).

(b) Consider these simultaneous equations.

$$\begin{aligned} 2x + y &= 10 && \text{..... (1)} \\ 2x - 3y &= 2 && \text{..... (2)} \end{aligned}$$



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