LINEAR EQUATION IN TWO VARIABLES

SOLUTION OF LINEAR EQUATION IN TWO VARIABLES

EXERCISE

Q.1 Check the following value of x & y are solution of equation $9x - 8y = 72$ or not

(i) (0, 9) (ii) (0, – 9)

(iii) (– 8, 0) (iv) (+8, 0)

(v) (1, 1) (vi) $\left(\frac{1}{3}, \frac{1}{2}\right)$

Q.2 Find the value of k in equation $2x + ky = 6$ if $(-2, 2)$ is a solution.

Q.3 Find value of p if $(4, -4)$ is a solution of $x - py = 8$.

Q.4 Check which of the following are solutions of the equation $2x - y = 6$ and which are not :

(i) (3, 0) (ii) (0, 6)

(iii) (2, –2) (iv) $(\sqrt{3}, 0)$

(v) $\left(\frac{1}{2}, -5\right)$

Q.5 If $x = -1$, $y = 2$ is a solution of the equation $3x + 4y = k$, find the value of k.

Q.6 Find the value of λ, if $x = -\lambda$ and $y = \frac{5}{2}$ is a solution of the equation $x + 4y - 7 = 0$.

Q.7 If $x = 2\alpha + 1$ and $y = \alpha - 1$ is a solution of the equation $2x - 3y + 5 = 0$, find the value of α.

Q.8 Find the value of x for which $y = 20$ is a solution of the equation $5x + 20y = 200$.

ANSWER KEY

1. (i) No

(ii) Yes

(iii) No

(iv) Yes

(v) No

(vi) No

2. $k = 5$

3. $p = 1$

4. (i) Yes

(ii) No

(iii) Yes

(iv) No

(v) Yes

5. $k = 5$

6. $\lambda = 3$

7. $\alpha = -10$

8. – 40