# Pair of Linear Equations in two variables

1] The value of k for which the pair of linear equations $4x + 6y – 1 = 0$ and $2x + ky – 7 = 0$ represents parallel Lines is

A] k = 3 B] k = 2 C] k= 4 D] k = -2

2] The pair of linear equations $kx + 2y = 5$ and $3x + y = 1$ has unique solution if:

A] k = 6 B] $k \neq 6$ C] k = 0 D] k has any value

3] One equation of a pair of dependent linear equations is $-5x + 7y = 2$, the second equation can be

A] $10x + 14y + 4 = 0$ B] $– 10x + 14y + 4 = 0$ C] $-10x + 14y - 4 = 0$ D] $10x – 14y = -4$

4] If x = 1, y = b is the solution of the equations $x – y = 2$ and $x + y = 4$, then the values of a and b are, respectively.

A] 3 and 5 B] 5 and 3 C] 3 and 1 D] -1 and -3

5] The pair of linear equations $-5x + 2y = 8$ and $2x – 5y – 3 = 0$ have

A] no solution B] one solution C] two solution D] many solution

6] The pair of equations y = 0 and y = -7 have:

A] One solution B] two solutions C] Infinitely many solutions D] no solution

7] The following pairs of linear equations $2x + 5y = 3$ and $6x + 15y = 12$ represent:

A] Intersecting lines B] Parallel lines

C] Coincident lines D] none from a, b, c

8] If the lines given by $3x + 2ky = 2$ and $2x + 5y + 1 = 0$ are parallel, then the value of k is:

A] $\frac{-5}{4}$ B] $\frac{2}{5}$ C] $\frac{15}{4}$ D] $\frac{3}{2}$

9] The graphical representation of the pair of equations $x + 2y – 4 = 0$ and $2x + 4y – 12 = 0$ represents:

A] Intersecting lines B] Parallel lines

C] Coincident lines D] on the above

10] The lines representing the linear equations $2x – y = 3$ and $4x – y = 5$

A] Intersect at a point B] are parallel

C] Are coincident D] intersect at exactly two points

11] The pair of linear equations $8x – 5y = 7$ and $5x – 8y = -7$ have:

A] One solution B] Two solutions C] No solution D] Many solution

12] If a pair of linear equations is consistent, then the lines will be:

A] Parallel B] always coincident

C] Intersecting or coincident D] always intersecting

13] The pair of linear equations $2x – 3y = 5$ and $-6y + 4x – 10 = 0$ have

A] Two solutions B] One solution C] No solution D] Many solutions

14] The pair of linear equations $7x – 3y = 4$ and $14x + 4y = 5$ have

A] one solution B] two solutions C] many solutions D] no solution

15] The pair of linear equations $x – 2y = 0$ and $3x + 4y = 20$ have:

A] one solution B] two solutions C] many solutions D] no solution

16] The number of solutions of the pair of linear equations $x + 2y – 8 = 0$ and $2x + 4y = 16$ have

A] 0 B] 1 C] Infinitely many D] None

17] The value of k for which the pair of equations $kx – y = 2$ and $6x – 2y = 3$ has a unique solution:

A] $k = 3$ B] $k \neq 3$ C] $k \neq 0$ D] $k = 0$