

Class  
**10**

# PAIR OF LINEAR EQUATIONS IN TWO VARIABLES

$$ax + by + c = 0$$
$$a_1x + b_1y + c_1 = 0$$



★ 10 MCQs ★

**1** Which of the following is not a linear equation?

- A  $5 + 4x = y + 3$
- B  $x + 2y = y - x$
- C  $3 - x = y^2 + 4$
- D  $x + y = 0$

**6** The value of  $x$  satisfying  $2(x - 1) - (1 - x) = 2x + 3$  is:

- A 2
- B 4
- C 6
- D 8



**2** The pair of equations  $2x - y = 4$  and  $4x - 2y = 6$  are:

- A Consistent equations
- B Dependent equations
- C Inconsistent equations
- D Coincident equations

**7** The value of  $k$  for which the system  $kx - y = 2$  and  $6x - 2y = 3$  has no solution is:

- A 3
- B  $\neq 3$
- C  $\neq 0$
- D 0



**3** The solution of the equations  $\sqrt{3}x + \sqrt{5}y = 0$  and  $\sqrt{7}x + \sqrt{11}y = 0$  is:

- A  $x = 3, y = 5$
- B  $x = 7, y = 11$
- C  $x = 1, y = 1$
- D  $x = 0, y = 0$

**8** If  $2x + 3y = 8$  and  $4x + py = 16$  have infinitely many solutions, then  $p$  is:

- A 8
- B 6
- C 10
- D 16



**4** The value of  $x$  satisfying  $3x - (x - 4) = 3x + 1$  is:

- A -3
- B 0
- C 3
- D 10

**9** A pair of linear equations has a unique solution when:

- A  $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$
- B  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$
- C  $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$
- D  $\frac{a_1}{a_2} = \frac{b_1}{b_2}$



**5** Which of the following equations is inconsistent with  $2x + 3y - 5 = 0$ ?

- A  $4x - 6y - 11 = 0$
- B  $2x + y = 5$
- C  $x + 3y = 5$
- D  $4x + 6y - 11 = 0$

**10** A pair of linear equations is inconsistent if:

- A The lines intersect at one point
- B The lines coincide
- C The lines are parallel
- D The lines are perpendicular

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LIVEWORKSHEETS