Foundation

Udaan 2025

Maths

DHA:01

Pair of Linear Equations in Two Variables

Q 1 The pair of equation y = 0 and y = –7 has

See the solutions

(A) one solution (B) two solutions

(C) infinitely many solutions (D) no solution

Q 2 The pair of equations x = a and y = b graphically represents lines which are

(A) parallel (B) intersecting at (b, a)

(C) coincident (D) intersecting at (a, b)

Q 3 Romila went to a stationary stall and purchased 2 pencils and 3 erasers for Rs. 9. Her friend Sonali saw the new variety of pencils and erasers with Romila and she also bought 4 pencils and 6 erasers of the same kind for Rs. 18. The algebraic representation of situation is

(A) 2x + 3y = 9, 3x + 5y = 18

(B) 2x + 4y = 8, 4x + 6y = 18 jldi jldi min glt

(C) 2x + 3y = 9, 4x + 6y = 18

(D) None of the above

Q 4 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

Q 5 If the lines are parallel, then the pair of equations has no solution. In this case, the pair of equations is.

(A) Consistent

(B) Inconsistent

(C) Cannot say

(D) None of these

Q 6 Represent the following pair of equations graphically and write the coordinates of points where the lines intersects y-axis.

x + 3y = 16

2x – 3y = 12

Q 7 Graphically, solve the following pair of equations:

2x + y = 6

2x – y + 2 = 0

Find the ratio of the areas of the two triangles formed by the lines representing these equations with the x-axis and the lines with the y-axis.

Answer Key

Q1	**D**
Q2	**D**
Q3	**C**
Q4	**C**
Q5	**B**
Q6	**Discussed in video solution.**
Q7	**Discussed in video solution.**

Hints & Solutions

Q 1 **Text Solution:**

no solution

Video Solution:

Q 2 **Text Solution:**

intersecting at (a, b)

Video Solution:

Q 3 **Text Solution:**

2x + 3y = 9, 4x + 6y = 18

Video Solution:

Q 4 **Text Solution:**

intersecting or coincident

Video Solution:

Q 5 **Text Solution:**

Inconsistent

Video Solution:

Q 6 **Video Solution:**

Q 7 **Video Solution:**