

# **Class X - Mathematics Chapter wise Test 3 of 2023**

## MM20 Pairs of Linear Equations in two variables Time 50 Min

#### Section A - 1 Mark Each

- Q1. Solution of 2x 3y = 5 and 3x 2y = 5 is \_\_\_\_\_ (A) x = 1, y = -1 (B) x = 1, y = 2 (C) x = 2, y = 1 (D) x = 2, y = -2
- Q2. The graph of 2x 3y = 0 is
  (A) parallel to x axis (B) parallel to x axis (C) Passes through origin (D) None of the rest

#### Section B - 2 marks each

- Q3. Solve:  $113 \times + 115 \text{ y} = 343 \text{ and } 115 \times + 113 \text{ y} = 341$
- Q4. Write a pair of linear equations which has the unique solution x = -2, y = 5. How many such pairs can you write?

## Section C - 3 marks each

- Q5. For which values of p and q, will the following pair of linear equations have infinitely many solutions? 4x + 5y = 2, (2p + 7q) x + (p + 8q) y = 2q p + 1.
- Q6. The age of the father is five times the sum of the ages of his three children. After 5 years, his age will be three times the sum of the ages of his children. Find the age of the father.

### Section D - 4 marks each

- Q7. Draw the graphs of the pair of linear equations x y + 2 = 0 and 4x y 4 = 0. Calculate the area of the triangle formed by the lines so drawn and the x-axis.
- Q8. A shopkeeper sells a saree at 8% profit and a sweater at 10% discount, thereby, getting a sum Rs 1008. If she had sold the saree at 10% profit and the sweater at 8% discount, she would have got Rs 1028. Find the cost price of the saree and the list price (price before discount) of the sweater

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