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Pair of Linear Equations · Worksheet

15 questions · 38 marks · A-E

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Instructions: Solve on this sheet or separate paper. **Label each answer with its question number (Q1, Q2 ...).** When done, upload one PDF of all your answers on LazyTopper to get it graded with full solutions.

Section A

1 mark each

Q1. Shown below is a pair of linear equations: mx + 4y − 6 = 0 and ny − 12x + 12 = 0. For which of the following values of m and n do the above equations have infinitely many solutions?

(a) m = -1 and n = 2 (b) m = -1 and n = 3

(c) m = 6 and n = -8 (d) m = 6 and n = -2

Q2. If the system 2x + 3y = 7 and 2ax + (a + b)y = 28 has infinitely many solutions, then:

(a) a = 2b (b) b = 2a (c) a + 2b = 0 (d) 2a + b = 0

Q3. The value of k for which x + (k + 1)y = 4 and (k + 1)x + 9y = 5k + 2 has infinitely many solutions is:

(a) k = 1 (b) k = 2 (c) k = 0 (d) no such value

Q4. A school canteen sells a samosa for ₹12 and a juice for ₹20. Riya buys x samosas and y juices, 7 items in all, and pays ₹108. Which pair of equations models this situation?

(a) x + y = 108 and 12x + 20y = 7 (b) x + y = 7 and 20x + 12y = 108

(c) x + y = 7 and 12x + 20y = 108 (d) 12x + y = 7 and x + 20y = 108

Q5. The sum of two numbers is 35 and their difference is 13. The numbers are:

(a) 24 and 11 (b) 20 and 15 (c) 22 and 13 (d) 25 and 10

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