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MM. 25

Linear equations in two variables

1 hours

Section A 1 Mark Each

- The value of k for which the system of equations $3x + 5y = 0$ and $kx + 15y = 0$ has a non zero solution is
(A) 0 (B) 2 (C) 9 (D) 8.
- If $\sqrt{a}x - \sqrt{b}y = b - a$ and $\sqrt{b}x - \sqrt{a}y = 0$ then value of x, y is :
(A) $a + b$ (B) $a - b$ (C) \sqrt{ab} (D) $-\sqrt{ab}$
- If $(6, k)$ is solution of the equation $3x + y - 11 = 0$, then the value of k is :
(A) -7 (B) 4 (C) 3 (D) -3
- Rs. 9800 divided among 150 children. If each boys gets Rs.50 and girl gets Rs.100 then the number of boys is
(A) 100 (B) 48 (C) 104 (D) 105
- If the pair of equation $2x + 3y = 10$ and $5x + \frac{15}{2}y = r$ represent two coincident lines. Then the value of r is:
(A) $\frac{-25}{2}$ (B) 25 (C) $\frac{-25}{2}$ (D) $\frac{-5}{2}$

Section B 2 Marks Each

- For what value of k will the following pair of linear equations have unique solution
 $3x - 5y = k, 5x + 3y = 15$
- Solve the following pairs of equations: $4x + \frac{6}{y} = 15, 3x + \frac{4}{y} = 7, y \neq 0$

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Section C 3 Marks Each

8. Solve the following pairs of equations by reducing them to a pair of linear equations:
 $6x + 3y = 6xy$ and $2x + 4y = 5xy$
9. On selling a T.V. at 5% gain and a fridge at 10% gain, a shopkeeper gains Rs.2000 but if he sells the T.V at 10% gain and the fridge at 5% loss. He gains Rs.1500 on the transaction. Find the actual price of the T.V and the fridge.
10. Solve graphically and write vertices of triangle formed $x = y$, $x = 4$ and $x + 2y = 10$
11. Find values of r and s for which the system of equations has infinitely many solutions.
 $4x + 5y = 2$, $(2r + 7s)x + (r + 8s)y = 2r - s + 1$

Section D 4 Marks Each

12. After covering a distance of 30km with a uniform speed there is some defect in a train engine and therefore its speed is reduced to $\frac{4}{5}$ of its original speed. Consequently the train reaches its destination late by 45 minutes. Had it happened after covering 18 kilometers more the train would have reached 9 minutes earlier, find the speed of the train and the distance of journey.

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