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Class: -96

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## Solution of a Pair of Linear Equations in Two Variables

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8. Find the value of K for which the given system
   of equations has a unique solutions
           3x+ Ky=1
sol' For a unique polution, we must have
             92 + b)

92 + b)

13 + -2/

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    Hence, The given system of equations will have a unique solution for all real values of K, other
             > K. + - 6
                       Do your self
    Chan -6.
   Find the value of K for which the given system.
   of equations has a unique solution.
   (1) 2x + 3y - 5 = 0 (2) x - ky = 2 (3) 4x + ky = -8
1kx - 6y - 8 = 0 3x + 2y = -5 x + y = -1
Q. Fine the values of K. for which the pain of linear equations has no solution. 12x+Ky=K,
         The given system of equations have no belution
          Then \frac{\alpha_1}{\alpha_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2} | When k = -6 and 6
                                             no solution.
            \Rightarrow K = \frac{3}{K} + \frac{K^{-2}}{K}
           => K = 3 and 3 + K-2
          > K2=36 and K-2 +3
          >K= +6 and K +5
                Do your self
   show that the equations has no solution.
  (1) Kx + 2y = 5 (2) x + 2y = 5 (3) x + 2y = 3
                            3x+Ky=-15 5x+Ky=-7
       3x-4y=10
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