



Assignment question based upon online class

Maths homework (X)

- Which of the following pairs of linear equations has unique solution, no solution, or infinitely many solutions. In case there is a unique solution, find it by using cross multiplication method.
 - $x - 3y - 3 = 0$
 $3x - 9y - 2 = 0$
 - $2x + y = 5$
 $3x + 2y = 8$
 - $3x - 5y = 20$
 $6x - 10y = 40$
 - $x - 3y - 7 = 0$
 $3x - 3y - 15 = 0$
- For which values of a and b does the following pair of linear equations have an infinite number of solutions?
 $2x + 3y = 7$
 $(a - b)x + (a + b)y = 3a + b - 2$
 - For which value of k will the following pair of linear equations have no solution?
 $3x + y = 1$
 $(2k - 1)x + (k - 1)y = 2k + 1$
- Solve the following pair of linear equations by the substitution and cross-multiplication methods :
 $8x + 5y = 9$
 $3x + 2y = 4$
- Form the pair of linear equations in the following problems and find their solutions (if they exist) by any algebraic method :