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(Affiliated to CBSE up to +2 Level)

CLASS: X

DATE: 23 -06-2020

SUB.: MATHEMATICS

## Do Your Self

1. A pair of linear equations  $a_1x + b_1y + c_1 = 0$ ;  $a_2x + b_2y + c_2 = 0$  is said to be inconsistent, if

(a)  $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$  (b)  $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$

(c)  $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$  (d)  $\frac{a_1}{a_2} \neq \frac{c_1}{c_2}$

2. Graphically, the pair of equations  $7x - y = 5$ ;  $21x - 3y = 10$  represents two lines which are

- (a) intersecting at one-point (b) parallel  
(c) intersecting at two points (d) coincident

3. The pair of equations  $3x - 5y = 7$  and  $-6x + 10y = 7$  have

- (a) a unique solution (b) infinitely many solutions  
(c) no solution (d) two solutions

4. If a pair of linear equations is consistent, then the lines will be

- (a) always coincident (b) parallel  
(c) always intersecting (d) intersecting or coincident

5. The pair of equations  $x = 0$  and  $x = 5$  has

- (a) no solution (b) unique/one solution  
(c) two solutions (d) infinitely many solutions

6. The pair of equation  $x = -4$  and  $y = -5$  graphically represents lines which are

- (a) intersecting at  $(-5, -4)$  (b) intersecting at  $(-4, -5)$   
(c) intersecting at  $(5, 4)$  (d) intersecting at  $(4, 5)$

7. For what value of k, do the equations  $2x - 3y + 10 = 0$  and  $3x + ky + 15 = 0$  represent coincident lines

(a)  $\left(\frac{-9}{2}\right)$  (b)  $-11$

(c)  $\frac{9}{2}$  (d)  $-7$

8. If the lines given by  $2x + ky = 1$  and  $3x - 5y = 7$  are parallel, then the value of k is

(a)  $\frac{-10}{3}$  (b)  $\frac{10}{3}$

(c)  $-13$  (d)  $-7$

9. One equation of a pair of dependent linear equations is  $2x + 5y = 3$ . The second equation will be

- (a)  $2x + 5y = 6$  (b)  $3x + 5y = 3$   
(c)  $-10x - 25y + 15 = 0$  (d)  $10x + 25y = 15$

**10. If  $x = a$ ,  $y = b$  is the solution of the equations  $x + y = 5$  and  $2x - 3y = 4$ , then the values of  $a$  and  $b$  are respectively**

**(a) 6, -1**

**(b) 2, 3**

**(c) 1, 4**

**(d)  $19/5$ ,  $6/5$**