Linear Equations for Two Variables

Question 1. A linear equation in two variables has maximum : (a) Only one solution (b) Two solution (c) Infinite solution

(d) None of these

Answer: (c) Infinite solution

Question 2. Solutions of the equation 2x + 5y = 0 is: (a) 3,0 (b) -3,2 (c) 0,0 (d) 0,4

Answer: (c) 0,0

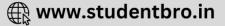
Question 3.
All linear equations in two variables have ————
(a) One solution
(b) Infinitely many solutions
(c) Three solutions
(d) Two solution

Answer: (b) Infinitely many solutions

Question 4. The equation of a line parallel to x-axis and 3 units above the origin is (a) x = -3(b) x = 3

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(c) y = -3(d) y = 3

Answer: (d) y = 3

Question 5.

If (2, 0) is a solution of the linear equation 2x + 3y = k, then the value of k is:

(a) 4

(b) 6

(c) 5(d) 2

 (\mathbf{u}) 2

Answer: (a) 4

Question 6.
The graph of x = 3 is a line:
(a) Parallel to x-axis at a distance of 3 units from the origin
(b) Parallel to y-axis at a distance of 3 units from the origin
(c) Makes an intercept 3 on x-axis
(d) Makes an intercept 3 on y-axis

Answer: (b) Parallel to y-axis at a distance of 3 units from the origin

Question 7. y = 0 is the equation of (a) a line parallel to x-axis (b) a line parallel to y-axis (c) x-axis (d) y-axis

Answer: (b) a line parallel to y-axis

Question 8. The value of k if x = 2, y = 1 is a solution of equation 2x - k = -3y is: (a) 6 (b) 5 (c) 7 (d) -7

Answer: (c) 7

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Question 9. For two lines 2x + y = 1 and x - y = 2 if the x coordinate of the common point is 1 what is the y coordinate? (a) -1 (b) 2 (c) -2 (d) 3

Answer: (a) -1

Question 10.

Five years ago, A was thrice as old as B and ten years later, A shall be twice as old as B. What is the present age of A.

(a) 20

(b) 50

(c) 60

(d) 40

Answer: (b) 50

Question 11.

Rozly can row downstream 20km in 2 hours, and the upstream 4km in 2 hours. What will be the speed of rowing in still water?

(a) 6 km/hr

(b) 4 km/hr

(c) 3 km/hr

(d) 7 km/hr

Answer: (b) 4 km/hr

Question 12. The graph of linear equation x+2y = 2, cuts the y-axis at: (a) (2,0) (b) (0,2) (c) (0,1) (d) (1,1)

Answer: (c)(0,1)

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Question 13.

If the line represented by the equation $3x + \alpha y = 8$ passes through the points (2,2), then the value of α is

- (a) 0
- (b) 4
- (c) 3
- (d) 1

Answer: (d) 1

Question 14.

If x = a, y = b is the solution of the pair of equation x-y = 2 and x+y = 4 then what will be value of a and b (a) 2,1

(b) 3,1 (c) 4,6 (d) 1,2

Answer: (b) 3,1

Question 15. The solution of the equation x + y = 3, 3x - 2y = 4 is : (a) x = 2, y = 1(b) x = 1, y = 2(c) x = -2, y = 1(d) x = -2, y = -1

Answer: (a) x = 2, y = 1

Question 16. The value of k if x = 2, y = 1 is a solution of equation 2x - k = -3y is (a) 7 (b) -7 (c) 6 (d) 5

Answer: (a) 7

Question 17. If x and y are both positive solutions of equation ax+by+c=0, always lie in:

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(a) First quadrant(b) Second quadrant(c) Third quadrant(d) Fourth quadrant

Answer: (a) First quadrant

Question 18. The linear equation 4x - 10y = 14 has: (a) A unique solution (b) Two solutions (c) Infinitely many solutions (d) No solutions

Answer: (c) Infinitely many solutions

Question 20. The point lying on the equation 2x - y = 5 is: (a) (3, 4) (b) (-3, 1) (c) (6, 1) (d) (2, -1)

Answer: (d) (2, -1)

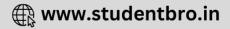
Question 21.

The sum of two digits and the number formed by interchanging its digit is 110. If ten is subtracted from the first number, the new number is 4 more than 5 times of the sum of the digits in the first number. Find the first number. (a) 46

(b) 48

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(c) 64 (d) 84

Answer: (c) 64

Question 22. For the equation 5x - 7y = 35, if y = 5, then the value of 'x' is (a) -12 (b) -14 (b) 14 (d) 12 Answer: (b) 14

Question 23. The straight line passing through the points (0, 0), (-1, 1) and (1, -1) has the equation : (a) 2 - x = 3y(b) y = x(c) 2x - y = 0(d) x + y = 0Answer: (d) x + y = 0

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Question 24. The value of k, if x = 1, y = 2 is a solution of the equation 2x + 3y = k. (a) 5 (b) 6 (c) 7 (d) 8

Answer: (d) 8

Question 25. The solution of equation x-2y = 4 is: (a) (0,2) (b) (2,0) (c) (4,0) (d) (1,1)

Answer: (c) (4,0)

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