Chapter - 3

Pair Of Linear Equations In Two Variables.

1. Which of the following is a pair of linear equations in two variables?

a) $x^2 + y^2 = 1$, $x + y = 2$

b) $x + y = 2$, $y - x = 1$

c) $x^2 + y^2 = 1$, $xy = 1$

d) $x + y = 2$, $xy = 1$

Answer: b

2. Which of the following is a solution of the pair of equations $2x + 3y = 7$ and $4x + 6y = 14$?

a) $(x, y) = (0, 2)$

b) $(x, y) = (1, 2)$

c) $(x, y) = (2, 1)$

d) $(x, y) = (3, 0)$

Answer: b

3. Which of the following is a solution of the pair of equations $3x - 2y = 4$ and $6x - 4y = 8$?

a) $(x, y) = (1, 2)$

b) $(x, y) = (2, 1)$

c) $(x, y) = (2, 4)$

d) $(x, y) = (4, 2)$

Answer: a

4. Which of the following is a solution of the pair of equations $x + y = 5$ and $2x - y = 1$?

a) (x, y) = (1, 4)

b) (x, y) = (2, 3)

c) (x, y) = (3, 2)

d) (x, y) = (4, 1)

Answer: b

5. Which of the following is a solution of the pair of equations 4x - 3y = 5 and 8x - 6y = 10?

a) (x, y) = (0, 0)

b) (x, y) = (1, 1)

c) (x, y) = (2, 3)

d) (x, y) = (3, 2)

Answer: a

6. Which of the following is a solution of the pair of equations 4x - 3y = 5 and 8x - 6y = 10?

a) (x, y) = (0, 0)

b) (x, y) = (1, 1)

c) (x, y) = (2, 3)

d) (x, y) = (3, 2)

Answer: a

7. Which of the following is a solution of the pair of equations 2x + 3y = 1 and 4x + 6y = 2?

a) (x, y) = (0, 1)

b) (x, y) = (1, 0)

c) (x, y) = (1, -1)

d) (x, y) = (-1, 1)

Answer: a

8. Which of the following is a solution of the pair of equations $2x - 3y = 1$ and $4x - 6y = 2$?

a) $(x, y) = (0, -1)$

b) $(x, y) = (1, 1)$

c) $(x, y) = (1, -1)$

d) $(x, y) = (-1, 1)$

Answer: a

9. Which of the following is a solution of the pair of equations $3x + 4y = 10$ and $6x + 8y = 20$?

a) $(x, y) = (2, 1)$

b) $(x, y) = (1, 2)$

c) $(x, y) = (3, 2)$

d) $(x, y) = (2, 3)$

Answer: a

10. Which of the following is a solution of the pair of equations $x - y = 1$ and $x + y = 3$?

a) $(x, y) = (1, 2)$

b) $(x, y) = (2, 1)$

c) $(x, y) = (1, 0)$

d) $(x, y) = (0, 1)$

Answer: a

11. Which of the following is a solution of the pair of equations $3x - 2y = 5$ and $6x - 4y = 10$?

a) $(x, y) = (0, -5/2)$

b) $(x, y) = (1, -1/2)$

c) $(x, y) = (2, 3/2)$

d) (x, y) = (3, 5/2)

Answer: b

12. Which of the following is a solution of the pair of equations 5x - 2y = 3 and 10x - 4y = 6?

a) (x, y) = (0, -3/2)

b) (x, y) = (1, 1/2)

c) (x, y) = (2, 5/2)

d) (x, y) = (3, 7/2)

Answer: b

13. Which of the following is a solution of the pair of equations 2x - 5y = 1 and 4x - 10y = 2?

a) (x, y) = (1, 1/2)

b) (x, y) = (2, 1/2)

c) (x, y) = (1, -1/2)

d) (x, y) = (2, -1/2)

Answer: c

14. Which of the following is a solution of the pair of equations x + y = 5 and 2x - y = 1?

a) (x, y) = (2, 3)

b) (x, y) = (3, 2)

c) (x, y) = (1, 4)

d) (x, y) = (4, 1)

Answer: a

15. Which of the following is a solution of the pair of equations 3x + 5y = 7 and 6x + 10y = 14?

a) (x, y) = (1, 0)

b) (x, y) = (0, 1)

c) (x, y) = (2, 1)

d) (x, y) = (1, 2)

Answer: a

16. Which of the following is a solution of the pair of equations 2x - 3y = 4 and 4x - 6y = 8?

a) (x, y) = (2, 0)

b) (x, y) = (1, 2)

c) (x, y) = (0, -4/3)

d) (x, y) = (2, -2/3)

Answer: a

17. Which of the following is a solution of the pair of equations 4x - y = 7 and 2x + y = 1?

a) (x, y) = (2, -3)

b) (x, y) = (1, -3)

c) (x, y) = (-1, 3)

d) (x, y) = (-2, 3)

Answer: c

18. Which of the following is a solution of the pair of equations 3x - y = 4 and 9x - 3y = 12?

a) (x, y) = (1, -1)

b) (x, y) = (2, 2)

c) (x, y) = (0, 4)

d) (x, y) = (3, 9)

Answer: a

19. Which of the following is a solution of the pair of equations 2x + 3y = 5 and 4x + 6y = 10?

a) (x, y) = (0, 5/3)

b) (x, y) = (1, 1)

c) (x, y) = (-1, 2)

d) (x, y) = (2, 1/2)

Answer: b

20. Which of the following is a solution of the pair of equations 3x - 2y = 5 and 6x - 4y = 10?

a) (x, y) = (1, 1)

b) (x, y) = (2, 1)

c) (x, y) = (0, -5/2)

d) (x, y) = (-1, -2)

Answer: c

21. Which of the following is a solution of the pair of equations 2x - y = 3 and 4x - 2y = 6?

a) (x, y) = (3, 6)

b) (x, y) = (2, 1)

c) (x, y) = (1, -1)

d) (x, y) = (0, 3)

Answer: d

22. Which of the following is a solution of the pair of equations x + y = 6 and x - y = 2?

a) (x, y) = (4, 2)

b) (x, y) = (3, 3)

c) (x, y) = (2, 4)

d) (x, y) = (1, 5)

Answer: c

23. Which of the following is a solution of the pair of equations $x + y = 7$ and $3x - y = 11$?

a) $(x, y) = (3, 4)$

b) $(x, y) = (2, 5)$

c) $(x, y) = (1, 6)$

d) $(x, y) = (4, 3)$

Answer: a

24. Which of the following is a solution of the pair of equations $2x - 3y = 1$ and $4x - 6y = 2$?

a) $(x, y) = (-1/2, -1/2)$

b) $(x, y) = (1/2, 1/2)$

c) $(x, y) = (1/2, -1/2)$

d) $(x, y) = (-1/2, 1/2)$

Answer: c

25. Which of the following is a solution of the pair of equations $x + y = 4$ and $2x + 2y = 8$?

a) $(x, y) = (2, 2)$

b) $(x, y) = (3, 1)$

c) $(x, y) = (1, 3)$

d) $(x, y) = (4, 0)$

Answer: a

26. Which of the following is a solution of the pair of equations $3x + 2y = 8$ and $6x + 4y = 16$?

a) $(x, y) = (2, 1)$

b) $(x, y) = (0, 4)$

c) (x, y) = (1, 2)

d) (x, y) = (-1, 4)

Answer: a

27. Which of the following is a solution of the pair of equations 3x - y = 5 and 6x - 2y = 10?

a) (x, y) = (3, 4)

b) (x, y) = (2, 1)

c) (x, y) = (1, 2)

d) (x, y) = (4, 3)

Answer: b

28. Which of the following is a solution of the pair of equations 2x - 5y = -1 and 4x - 10y = -2?

a) (x, y) = (1, 1/2)

b) (x, y) = (2, 1)

c) (x, y) = (-1/2, 1/4)

d) (x, y) = (0, -1/5)

Answer: a

29. Which of the following is a solution of the pair of equations 3x - y = 2 and 6x - 2y = 4?

a) (x, y) = (1, 1)

b) (x, y) = (2, 4)

c) (x, y) = (0, 2)

d) (x, y) = (-1, -5)

Answer: c

30. Which of the following is a solution of the pair of equations x + 2y = 5 and 2x + 4y = 10?

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

b) (x, y) = (1, 2)

c) (x, y) = (3, 1)

d) (x, y) = (0, 2)

Answer: b

31. Which of the following is a solution of the pair of equations 2x + y = 7 and 4x + 2y = 14?

a) (x, y) = (1, 5)

b) (x, y) = (2, 3)

c) (x, y) = (3, 1)

d) (x, y) = (4, -1)

Answer: a

32. Which of the following is a solution of the pair of equations 3x + 4y = 1 and 6x + 8y = 2?

a) (x, y) = (1, 0)

b) (x, y) = (0, 1)

c) (x, y) = (-1, 2)

d) (x, y) = (2, -1)

Answer: a

33. Which of the following is a solution of the pair of equations 2x - 3y = 4 and 4x - 6y = 8?

a) (x, y) = (2, -2)

b) (x, y) = (4, 0)

c) (x, y) = (1, 2)

d) (x, y) = (0, -4/3)

Answer: d

34. Which of the following is a solution of the pair of equations 3x - 2y = 1 and 6x - 4y = 2?

a) (x, y) = (1, 1/2)

b) (x, y) = (2, 1)

c) (x, y) = (-1/2, -1)

d) (x, y) = (0, 1/3)

Answer: a

35. Which of the following is a solution of the pair of equations 2x - y = 3 and 4x - 2y = 6?

a) (x, y) = (3, 6)

b) (x, y) = (2, -1)

c) (x, y) = (1, 1)

d) (x, y) = (0, -3)

Answer: b

36. Which of the following is a solution of the pair of equations 3x + 2y = 8 and 6x + 4y = 16?

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

b) (x, y) = (2, 1)

c) (x, y) = (4, 0)

d) (x, y) = (0,8)

Answer: a

37. Which of the following is a solution of the pair of equations 2x + 3y = 7 and 4x + 6y = 14?

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

b) (x, y) = (2, 1)

c) (x, y) = (3, 0)

d) (x, y) = (0, 7/3)

Answer: a

38. Which of the following is a solution of the pair of equations 5x - 2y = 1 and 10x - 4y = 2?

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

b) (x, y) = (2, 1)

c) (x, y) = (1/2, 3/4)

d) (x, y) = (0, -1/2)

Answer: c

39. Which of the following is a solution of the pair of equations 2x - 5y = 1 and 4x - 10y = 2?

a) (x, y) = (1, -1/2)

b) (x, y) = (2, -3/2)

c) (x, y) = (0, -1/5)

d) (x, y) = (-3, 1/2)

Answer: c

40. Which of the following is a solution of the pair of equations 3x - 2y = 5 and 6x - 4y = 10?

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

b) (x, y) = (1, -2)

c) (x, y) = (-1, -4)

d) (x, y) = (0, 5/2)

Answer: d

41. Which of the following is a solution of the pair of equations 4x - 3y = 5 and 8x - 6y = 10?

a) (x, y) = (1, -1)

b) (x, y) = (2, 1)

c) (x, y) = (0, -5/3)

d) (x, y) = (-1, -1/4)

Answer: c

42. Which of the following is a solution of the pair of equations 3x + 4y = 10 and 6x + 8y = 20?

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

b) (x, y) = (2, 1)

c) (x, y) = (0, 5/2)

d) (x, y) = (-2, 4)

Answer: a

43. Which of the following is a solution of the pair of equations 7x - 3y = 4 and 14x - 6y = 8?

a) (x, y) = (1, 3)

b) (x, y) = (2, 1)

c) (x, y) = (0, -4/3)

d) (x, y) = (-1, -1)

Answer: c

44. Which of the following is a solution of the pair of equations 2x - 7y = 3 and 4x - 14y = 6?

a) (x, y) = (1, 1)

b) (x, y) = (2, -1)

c) (x, y) = (3, 0)

d) (x, y) = (-1, -2)

Answer: c

45. Which of the following is a solution of the pair of equations 5x - 9y = 0 and 15x - 27y = 0?

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

b) (x, y) = (3, 5)

c) (x, y) = (0, 0)

d) (x, y) = (2, 3)

Answer: c

46. Which of the following is a solution of the pair of equations 4x - 2y = 6 and 8x - 4y = 12?

a) (x, y) = (1, 0)

b) (x, y) = (2, -3)

c) (x, y) = (0, -3)

d) (x, y) = (-1, 2)

Answer: b

47. Which of the following is a solution of the pair of equations 2x + 3y = 7 and 4x + 6y = 14?

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

b) (x, y) = (2, 1)

c) (x, y) = (0, 7/3)

d) (x, y) = (-1, -4)

Answer: c

48. Which of the following is a solution of the pair of equations 3x - 2y = 8 and 6x - 4y = 16?

a) (x, y) = (2, 5)

b) (x, y) = (1, -2)

c) (x, y) = (4, 0)

d) (x, y) = (-2, -1)

Answer: c

49. Which of the following is a solution of the pair of equations $2x + y = 5$ and $3x - y = 1$?

a) $(x, y) = (2, 1)$

b) $(x, y) = (1, 2)$

c) $(x, y) = (1, -2)$

d) $(x, y) = (-1, 3)$

Answer: a

50. Which of the following is a solution of the pair of equations $5x + 4y = 17$ and $3x + 2y = 9$?

a) $(x, y) = (1, 2)$

b) $(x, y) = (2, 1)$

c) $(x, y) = (1, 3)$

d) $(x, y) = (3, 1)$

Answer: d