ILLAWARRA TUTORING

This worksheet helps you learn to solve systems of equations with two variables by applying effective methods.

Easy Questions

1. Solve the system $2x + y = 10$ and $x - y = 2$.

2. Find the values of x and y in $3x + 2y = 12$ and $x - 2y = 4$.

3. Determine x and y if $x + y = 7$ and $x - y = 3$.

4. Solve for x and y from $4x + y = 9$ and $-4x + 3y = 5$.

5. Solve the following system: $x - y = 1$ and $2x + y = 7$.

Intermediate Questions

6. Solve $2x + 3y = 13$ and $4x - y = 7$.

7. Determine x and y from $\dfrac{x}{2} + \dfrac{y}{3} = 5$ and $\dfrac{x}{4} - \dfrac{y}{6} = 1$.

8. Find x and y if $5x - 2y = 8$ and $3x + 4y = 6$.

9. Solve $-x + 3y = 8$ and $2x + y = 4$.

10. Find the solution to $0.5x + 0.3y = 2.1$ and $1.5x - 0.2y = 4.8$.

11. Solve for x and y from $6x + 2y = 22$ and $3x - y = 4$.

12. Determine x and y if $x + 2y = 9$ and $3x - y = 5$.

13. Solve $4x + 3y = 24$ and $2x - y = 1$.

14. Find the values of x and y in $7x - 4y = 5$ and $3x + 2y = 16$.

15. Solve $2x - 5y = -1$ and $3x + y = 10$.

16. Determine x and y from $-3x + 2y = 7$ and $5x - 4y = -1$.

17. Solve the system $4x - 6y = 8$ and $2x + 3y = 5$.

18. Find x and y given $x - 4y = -3$ and $2x + 5y = 20$.

19. Solve $3x + 2y = 16$ and $5x - y = 9$.

20. Determine the solution of $2x + y = 11$ and $x - 2y = -4$.

Hard Questions

21. Solve for x and y in $7x + 5y = 23$ and $2x - 3y = -1$.

22. Find x and y if $3x - 2y = 5$ and $5x + 4y = 3$.

23. Solve $6x - y = 17$ and $4x + 3y = 1$.

24. Determine x and y from $5x + 2y = 12$ and $3x - 4y = -10$.

25. Solve the system $8x - 3y = 7$ and $6x + y = 19$.

26. Find the solution of $9x + y = 28$ and $4x - 2y = 6$.

27. Determine x and y if $2x - 3y = 6$ and $-x + 4y = 1$.

28. Solve $7x - 2y = 15$ and $3x + 5y = 29$.

29. Find x and y such that $11x + 7y = 40$ and $2x - 3y = 4$.

30. Solve for x and y in $5x - 3y = 7$ and $4x + 2y = 18$.