

Systems of Equations

Exercises

Directions: Solve each system of equations using the method indicated. Show your work and label the solution set.

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|----------------------------------|-------------------------------------|
| 1. $x + y = 5$ $x - y = 1$ | 2. $2x + 3y = 12$ $x - y = 4$ |
| 3. $x + 2y = 7$ $3x - y = 5$ | 4. $4x + 5y = 20$ $2x - 3y = 6$ |
| 5. $x + y = 10$ $2x - y = 5$ | 6. $3x + 4y = 12$ $x - 2y = 8$ |
| 7. $x + 3y = 9$ $2x + y = 4$ | 8. $5x + 2y = 10$ $x - y = 3$ |
| 9. $x + y = 6$ $2x - y = 3$ | 10. $3x + 2y = 12$ $x - y = 4$ |
| 11. $x + 2y = 8$ $3x - y = 5$ | 12. $4x + 5y = 20$ $2x - 3y = 6$ |

Use the substitution method to solve the system of equations.

Use the elimination method to solve the system of equations.

