

## Solving Simultaneous Equations - A - Answer Sheet

Use elimination to solve the pairs of simultaneous equations.

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|----|------------------------------------|-----------------|-----|------------------------------------|------------------|
| 1. | $x + 3y = 6$<br>$x - y = 2$        | $x = 3, y = 1$  | 10. | $x + 3y = 7$<br>$x + 7y = 19$      | $x = -2, y = 3$  |
| 2. | $3x + 2y = 9$<br>$x - 2y = -5$     | $x = 1, y = 3$  | 11. | $4x + y = 1$<br>$7x - y = -12$     | $x = -1, y = 5$  |
| 3. | $4x - y = -12$<br>$4x + 2y = 0$    | $x = -2, y = 4$ | 12. | $3x + 7y = 34$<br>$3x - y = 2$     | $x = 2, y = 4$   |
| 4. | $x + 4y = 14$<br>$x + y = 5$       | $x = 2, y = 3$  | 13. | $3x - 2y = 22$<br>$x - 2y = 2$     | $x = 10, y = 4$  |
| 5. | $2x + y = -3$<br>$2x + 3y = 3$     | $x = -3, y = 3$ | 14. | $x - 2y = 0$<br>$x - 5y = -6$      | $x = 4, y = 2$   |
| 6. | $x - 2y = -7$<br>$x + y = 5$       | $x = 1, y = 4$  | 15. | $3x + y = 11$<br>$3x - 2y = -4$    | $x = 2, y = 5$   |
| 7. | $6x + 4y = 62$<br>$3x + 4y = 47$   | $x = 5, y = 8$  | 16. | $-4x + y = 5$<br>$-4x + 4y = 32$   | $x = 1, y = 9$   |
| 8. | $2x - 5y = -27$<br>$4x - 5y = -19$ | $x = 4, y = 7$  | 17. | $2x + 4y = -18$<br>$2x + 3y = -15$ | $x = -3, y = -3$ |
| 9. | $3x - 2y = 16$<br>$2x + 2y = 14$   | $x = 6, y = 1$  | 18. | $3x + y = 23$<br>$3x - 2y = 17$    | $x = 7, y = 2$   |