

Solving Algebraic Equations

Solve these equations:

Answers are rounded to 2 decimal places where appropriate

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|-----|---------------|------------|-----|----------------|------------|
| 1. | $x + 5 = 9$ | $x = 4$ | 2. | $x + 7 = 15$ | $x = 8$ |
| 3. | $x + 1 = 8$ | $x = 7$ | 4. | $x + 11 = 21$ | $x = 10$ |
| 5. | $x + 6 = 4$ | $x = -2$ | 6. | $x + 4 = 4$ | $x = 0$ |
| 7. | $y + 20 = 32$ | $y = 12$ | 8. | $y + 12 = 30$ | $y = 18$ |
| 9. | $t + 8 = 101$ | $y = 93$ | 10. | $r + 0.5 = 9$ | $r = 8.5$ |
| 11. | $x - 1 = 10$ | $x = 11$ | 12. | $x - 5 = 2$ | $x = 7$ |
| 13. | $x - 8 = 20$ | $x = 28$ | 14. | $x - 9 = -3$ | $x = 6$ |
| 15. | $x - 3 = 21$ | $x = 24$ | 16. | $x - 7 = 4$ | $x = 11$ |
| 17. | $y - 10 = 34$ | $y = 44$ | 18. | $t - 52 = 11$ | $t = 63$ |
| 19. | $t - 3.5 = 9$ | $t = 12.5$ | 20. | $p - 21 = -4$ | $p = 17$ |
| 21. | $2x = 12$ | $x = 6$ | 22. | $5x = 15$ | $x = 3$ |
| 23. | $3x = -6$ | $x = -2$ | 24. | $8x = 32$ | $x = 4$ |
| 25. | $4x = 14$ | $x = 3.5$ | 26. | $9x = -27$ | $x = -3$ |
| 27. | $6x = 31$ | $x = 5.17$ | 28. | $11x = 88$ | $x = 8$ |
| 29. | $3y = 17$ | $y = 5.67$ | 30. | $3.5p = 10.5$ | $p = 3$ |
| 31. | $2x + 1 = 13$ | $x = 6$ | 32. | $5x - 2 = 23$ | $x = 5$ |
| 33. | $8t + 3 = 43$ | $t = 5$ | 34. | $4x + 10 = 42$ | $x = 8$ |
| 35. | $7x - 2 = 65$ | $x = 9.57$ | 36. | $3y + 4 = -11$ | $y = -5$ |
| 37. | $6t + 7 = 28$ | $t = 3.5$ | 38. | $7x - 1 = 25$ | $x = 3.71$ |
| 39. | $3p - 4 = -2$ | $p = 0.67$ | 40. | $12q + 3 = 36$ | $q = 2.75$ |