

TPC Linear Equations

Solve each equation. Check.

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|---|--|-----------------------|
| 1. $4a - 2 = 10$ | 2. $10x = 2x - 32$ | 3. $7y + 11 = 8 - 5y$ |
| 4. $-43 = 7 - 8t$ | 5. $2(x - 4) = -5$ | 6. $15 = 4(6 - 3c)$ |
| 7. $18x - 14 - 21x = 17 - x + 7$ | 8. $14 + 5(6n - 2) = 25n - 16$ | |
| 9. $8y - 5.4 = 3y - 1.2$ | 10. $2.9n - 5 = 3 - 0.3n$ | |
| 11. $\frac{3}{5}x + 11 = 31 - \frac{1}{5}x$ | 12. $\frac{2}{7}y - 15 = \frac{6}{7}y - 9$ | |
| 13. $12 - (7c - 11) = 3(5 - 3c)$ | 14. $2.4(20 - x) + 1.8x = 43.8$ | |
| 15. $\frac{x - 3}{2} = \frac{x}{5}$ | 16. $\frac{x + 2}{x - 4} = \frac{7}{4}$ | |

Solve each equation for x .

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| 17. $ax - b = c$ | 18. $5x - y = 3x + 3y$ | 19. $2tx + 7 = 8 - 3tx$ |
| 20. $a(2x - b) = 7$ | 21. $4r(x + t) = 3rx + n$ | 22. $\frac{x - a}{2} = \frac{x + b}{3}$ |

Solve each equation.

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| 23. $p + p(0.08)3 = 3,100$ | 24. $p(0.09)4 + p(0.11)4 = 1,200$ |
| 25. $3(5.4 + r) = 5.4r$ | 26. $4.2(r + 8.7) = 8.7r$ |
| 27. $540 = v \cdot 6 - 5 \cdot 6^2$ | 28. $242 = v \cdot 4 - 5 \cdot 4^2$ |
| 29. $\frac{3}{4}n - \frac{7}{8} = \frac{3}{2}n - \frac{3}{4}$ | 30. $\frac{2}{3}y + \frac{5}{2} = \frac{4}{5}y + \frac{7}{6}$ |
| 31. $\frac{8x - 3}{6x + 9} = \frac{-2}{3}$ | 32. $\frac{5x + 6}{3} = \frac{3x - 14}{5}$ |
| 33. $3(2y - 5) - (7y - 6) = -10$ | 34. $-6(3 - 3x) = -9(2x - 30)$ |
| 35. $\frac{3}{5}(10x - 15) + \frac{5}{4}(16x + 24) = 86$ | 36. $\frac{5}{6}(18 - 12t) - \frac{2}{3}(12t + 15) = 14$ |