

Simplify. Show your work of distributing.

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|---|---|
| 1. $-4x - 9 + 7x - 1$ 3x - 10 | 2. $21 + 3(x + 2)$ 3x + 27 |
| 3. $6x - (8 - x)$ 7x - 8 | 4. $2(4x - 3) - 3(x + 2) + 10 =$ 5x - 2 |

Solve. Show all calculations.

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| 5. $5 + r = -19$ r = -24 | 6. $z - 8 = -12$ z = -4 | 7. $-11x = -77$ x = 7 |
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| 8. $\frac{x}{6} = -3.5$ x = -21 | 9. $2x - 13 = -5$ x = 4 |
| 10. $2w + 7w - 4 = 14$ w = 2 | 11. $3x - 3(2x + 3) = 0$ x = -3 |
| 12. $\frac{2}{3}n = 6$ n = 9 | 13. $-2(-2x + 1) = 5x + 6$ x = -8 |
| 14. $\frac{n}{10} - 6 = 20$ n = 260 | 15. $4(3x + 1) = 12x + 6$ No solution |

Evaluate:

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| 16. $13 - 5 + 4 =$ 12 | 17. $12 \div 2x3 + 4^2 - 2(18 - 12) =$ 22 | 18. $-2(3 + 1)^2 - 4 + 1 =$ -35 |
| 19. <i>If $a = 3; b = -5; c = 4$</i> <i>Find: $ab + c^2$</i> 1 | 20. <i>If $a = 3; b = -5; c = 4$</i> <i>Find: $9a - bc$</i> 47 | 21. <i>If $a = 3; b = -5; c = 4$</i> <i>Find: $-ab - bc - ac$</i> 23 |