MATHEMATICS WORKSHEET

Linear Equations in One Variable

Name: _____ **Grade:** _____ **Date:** _____

Instructions: Solve each equation for the variable x. Show all your steps. Remember to apply the distributive property, the rules of signs, and the properties of equality.

01. $3(x + 4) - 5 = 2x + 11$

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02. $5(2x - 3) + 4 = 3x + 18$

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03. $-2(x - 6) + 7 = 3x - 4$

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04. $4(3x + 2) - 6x = 30$

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05. $7 - 3(2x - 5) = x + 8$

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06. $-4(x + 3) + 2x = -18$

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07. $6(x - 2) - 3(x + 1) = 9$

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08. $2(3x - 4) - 5(x + 2) = -16$

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09. $-3(2x + 1) + 4(x - 5) = -19$

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10. $5 - 2(3x - 4) = 3(x + 1) - 6$

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11. $3(2x - 5) + 2(x + 4) = 5x - 7$

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12. $-5(x - 2) + 3(2x + 1) = 4x - 9$

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13. $4(2x - 3) - 2(x + 5) = 3(x - 4) + 7$

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14. $7(x + 1) - 3(2x - 4) = 2(x + 8)$

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15. $-2(3x - 7) + 5(x - 1) = 4 - x$

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16. $3(x - 4) - 2(2x + 3) = -x - 18$

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17. $8 - 3(x + 2) = 2(1 - 2x) + 5$

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18. $4(2 - x) + 3(x - 5) = 2(x + 1) - 13$

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19. $-6(x - 3) + 2(2x - 1) = 3(x + 4) - 5$

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20. $5(x - 2) - 2(3x + 1) = -x - 14$

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Check your answers by substituting the value of x into the original equation.

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