

Name: _____

WORKSHEET: Algebraic Proof

Solve each equation. Write a reason for every step.

1. $4x = 12x + 32$

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2. $28 + 12x = 8x - 4$

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3. $60x + 153 = 9x + 51$

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4. $-4x + 10 = -5x + 18$

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

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6. $-x - 2(9 - 8x) = 12$

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7. $6(x - 6) = x(16 - 7)$

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8. $\frac{1}{4}x + 10 = 2$

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9. $\frac{1}{6}x - 4 = -6$

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10. $8 - \frac{1}{7}x = 9$

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11. $x^2 + 7x + 12 = 0$

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12. $x^2 + 4x - 12 = 0$

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13. $x^2 + 6 = 7x$

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14. $x^2 - 2x = 15$

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15. $x^2 = 8x - 12$

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16. $-x^2 - 6x = 8$

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