

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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