

Algebra I

4.6 Worksheet #2

Solving Two-Step Equations (same variable on both sides)

NAME: _____

DATE: _____ HOUR: _____

Solve the equations by first moving all variables to the left-hand side then adding or subtracting from both sides of the equation then dividing both sides of the equation. Show all steps. Box and check your solutions.

1. $6y - 4 = y + 6$

2. $8n + 5 = 6n - 3$

3. $10y - 13 = 3y + 8$

4. $3y + 4 = 5y + 6$

5. $4x - 8 = 10 - 2x$

6. $5x + 4 = 2x - 5$

7. $3 - 12m = 15 - 8m$

8. $6z - 6 = 3z + 9$

9. $8y - 2 = 6 + 4y$

$$10. 16m - 12 = 12 + 4m$$

$$11. 2h - 8 = 3h - 10$$

$$12. 5y + 8 = -7 - 10y$$

$$13. 3x - 4 = 5x + 6$$

$$14. 6z - 3 = 4z + 5$$

$$15. 2h + 8 = 5h - 7$$

$$16. 12a - 8 = 16 + 4a$$

$$17. 3x - 5 = 2x + 6$$

$$18. 9y - 6 = 12 + 3y$$

$$19. 7h + 2 = 3h - 10$$

$$20. 4 + 4x = 2x - 8$$

$$21. 2a - 5 = 3a - 3$$