

Worksheet 3.6I: Isolating the Variable | Chapter 3**Solve each equation for the variable specified.**

1. $5x - 6 = y$, solve for x

2. $15x + 1 = y$, solve for x

3. $7x + 3y = 21$, solve for y

4. $16x + 4y = 20$, solve for y

5. $y = \frac{1}{4}x - 2$, solve for x

6. $y = -4x + 2$, solve for x

7. $-y + 2x = 14$, solve for x

8. $-2x - 4y = 15$, solve for x

9. $y + 2 = -3(x - 3)$, solve for y

10. $y - 7 = \frac{2}{3}(x + 6)$, solve for y

11. $y + 5 = -\frac{2}{5}(x - 10)$, solve for y

12. $y - 3 = 4(x - \frac{1}{2})$, solve for y

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13. $2x + 5y = 11y$, solve for x

14. $-4x + 3y = 12x - 8y$, solve for x

15. $-3x - 2y = 13y$, solve for y

16. $2x - 4y = 10x + 6y$, solve for y

Write the following equations in Slope-Intercept Form.

17. $y + 6 = 2(x - 2)$

18. $y + 3 = -\frac{2}{3}(x - 6)$

19. $3x - 2y = 24$

20. $5x - 2y = -10$

Write the following equations in Standard Form.

21. $y - 13 = 4(x - 2)$

22. $y + 7 = -\frac{1}{2}(x + 2)$

23. $y = 6x + 11$

24. $y = \frac{2}{3}x + 7$