

7-1C Practice

Name _____

Date _____

Write two equations implied by each absolute value equation.

1. $|x - 2| = 4$ _____ or _____

2. $|3x - 5| = 2$ _____ or _____

3. $|x + 3| = 2$ _____ or _____

4. $|3 - 2x| = 2$ _____ or _____

Solve and check.

5. $|x + 6| = 19$ _____

6. $|x - 4| = 2$ _____

7. $|x - 7| = 0$ _____

8. $|2x - 1| = 11$ _____

9. $|-2x + 1| = 1$ _____

10. $|-x - 1| = 6$ _____

Solve. Simplify each equation before applying absolute value rules.

11. $|x - 2| + 6 = 12$ _____

12. $|x + 4| - 3 = 15$ _____

13. $|2x| - 1 = 4$ _____

14. $|4x| - 1 = 11$ _____

15. $2|x - 1| = 8$ _____

16. $-5|x + 1| = 10$ _____

17. $3|x| + 6 = 18$ _____

18. $6|x| + 1 = 13$ _____

19. $-2|x + 1| = -6$ _____

20. $0.5|x - 1| = 5$ _____

21. $3|2x - 3| + 6 = 21$ _____

22. $4|-2x + 1| - 8 = 12$ _____

Use the graph of $y = |x + 8|$ to solve each equation.

23. $|x + 8| = 0$

24. $|x + 8| = 8$

25. $|x + 8| = 2$

