

Absolute Value Equations Skills Practice

Determine the number of solutions for each equation. Then, calculate the solution.

1. $x = -9$

2. $|x| = -6$

3. $|x| = 4$

4. $|-x| = -8$

5. $|x| = 0$

6. $|-x| = 15$

Solve each linear absolute value equation.

7. $|x + 9| = 2$

8. $|x + 4| = 10$

9. $|x - 12| = 5$

10. $|2x - 6| = 18$

11. $|3x + 1| = -9$

12. $|5x + 1| = 14$

Solve each linear absolute value equation.

13. $|x| - 8 = 25$

14. $|x + 3| - 7 = 40$

15. $2|x - 6| = 48$

16. $3|x + 8| = 36$

17. $5|x| + 4 = 79$

18. $2|x| - 5 = 11$