

NAME _____

Module 6 Solving Absolute Value Equations and Inequalities

Lesson 2 Solving Advanced Absolute Value Equations



**additional
practice**

Solve the following absolute value equations.

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| 1. $ x = 7$ $x = 7$ or -7 _____ | 2. $ x = -3$ \emptyset _____ |
| 3. $2 x = 12$ $x = 6$ or -6 _____ | 4. $3 x = 9$ $x = 3$ or -3 _____ |
| 5. $-3 x = -15$ $x = 5$ or -5 _____ | 6. $3 x + 1 = 7$ $x = 2$ or -2 _____ |
| 7. $4 x - 2 = 10$ $x = 3$ or -3 _____ | 8. $2 x - 1 = 3$ $x = 2$ or -2 _____ |
| 9. $3 x - 5 = 9$ $x = 8$ or 2 _____ | 10. $2 x - 6 = 8$ $x = 2$ or 10 _____ |
| 11. $5 x + 2 = 12$ $x = 2$ or -2 _____ | 12. $3 x - 2 = 7$ $x = 3$ or -3 _____ |
| 13. $5 = x + 3 - 4$ $x = 6$ or -12 _____ | 14. $4 x - 3 - 1 = 7$ $x = 5$ or 1 _____ |
| 15. $ x + 6 = 15$ $x = 9$ or -21 _____ | 16. $ x + 7 + 1 = 7$ $x = -1$ or -13 _____ |
| 17. $ 2x - 3 = 13$ $x = 8$ or -5 _____ | 18. $ 2x - 1 = 7$ $x = 4$ or -3 _____ |
| 19. $3 x + 2 = 6$ $x = 0$ or -4 _____ | 20. $3 x + 4 = 9$ $x = -1$ or -7 _____ |

