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Module 6   Solving Absolute Value Equations
                and Inequalities

Lesson 2   Solving Advanced Absolute Value
                Equations

guided notes

Lesson Objectives

- Solve absolute value equations in which the absolute value expression is isolated in one step.
- Solve absolute value equations in which the absolute value expression is isolated in two steps.

The solutions to the equation $|x| = a$ are $x =$ _____ and

$x =$ _____, if a is nonnegative.

To rewrite an absolute value equation as a disjunction, we need to

_____ the absolute value expression.

1 ▶ Solve:

$2 = |n| + 3$

_____

Solution Set: _____

2 ▶ Solve:

$-3|a| = 12$

_____

Solution Set: _____

3 ▶ Solve:

$4 + |n - 5| = 4$

_____

Solution Set: _____

4 ▶ Solve:

$2|x + 7| + 2 = 4$

_____

Solution Set: _____

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