

NAME _____

Module 6 Solving Absolute Value Equations and Inequalities**Lesson 2** Solving Advanced Absolute Value Equationsguided
practice**Set 1**

1. Solve:

$|x| + 2 = 3$

$x = 1 \text{ or } x = -1$

Solution Set: $\{-1, 1\}$

3. Solve:

$|x| - 3 = -4$

$|x| = -1$ no solution

Solution Set: $\emptyset$ or $\{\}$ or empty set

2. Solve:

$18 = 6|x|$

$x = 3 \text{ or } x = -3$

Solution Set: $\{-3, 3\}$

4. Solve:

$\frac{|n|}{3} = 0$

$n = 0$

Solution Set: $\{0\}$

Set 2

1. Solve:

$4 - |x + 1| = 2$

$x = 1 \text{ or } x = -3$

Solution Set: $\{-3, 1\}$

3. Solve:

$7 = -5 + \frac{1}{2}|x|$

$x = 24 \text{ or } x = -24$

Solution Set: $\{-24, 24\}$

2. Solve:

$|x + 1| - 3 = -3$

$x = -1$

Solution Set: $\{1\}$

4. Solve:

$4 - 6|x + 3| = 10$

$|x + 3| = -1$ no solution

Solution Set: $\emptyset$ or $\{\}$ or empty set

