Lesson 3.4 Practice: Absolute Value Equations

School Launch · Algebra I · Unit 3: Linear Inequalities and Absolute Value · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Solve: $|x - 5| = 9$. EASY

2. Solve: $|x + 6| = 4$. EASY

3. Solve: $|x - 3| = 2$. EASY

4. Solve: $|x - 1| = 5$. MEDIUM

5. Solve: $|2x + 9| = 9$. MEDIUM

6. Solve: $|2x - 7| = 9$. MEDIUM

7. Solve: $|x - 9| = 1$. MEDIUM

8. Solve: $4|3x - 6| - 2 = 30$. HARD

9. Solve: $3|2x + 4| - 3 = 6$. HARD

10. Solve: $2|4x + 8| - 3 = -1$. HARD