Lesson 3.5 Practice: Absolute Value Inequalities

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 and graph: $|x + 1| < 8$. EASY

2. Solve and graph: $|x - 1| \geq 4$. EASY

3. Solve and graph: $|x + 6| < 3$. EASY

4. Solve and graph: $|2x + 2| \leq 7$. MEDIUM

5. Solve and graph: $|2x - 6| < 3$. MEDIUM

6. Solve and graph: $|3x - 1| \leq 5$. MEDIUM

7. Solve and graph: $|3x - 5| \geq 5$. MEDIUM

8. Solve and graph: $|3x + 6| < 2$. HARD

9. Solve and graph: $|3x + 1| < 9$. HARD

10. Solve and graph: $|2x + 6| > 8$. HARD