

2.5 Equations Involving Absolute Value

Section: _____

Work all problems and respond all questions. No work, no credit. You are expected to use the methods shown in class. Simplify all results when possible. Please be clear and precise with your notation. No decimals are allowed unless the original problem has decimals.

For each of the following problems, solve for the variable and respond to the questions. Choose an answer and check it.

1. $|2x + 1| = 6$

I'm checking $x =$

1. _____

2. $|5a - 2| - 8 = 0$

I'm checking $x =$

2. _____

3. $|6b - 3| - 9 = 0$

I'm checking $x =$

3. _____

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4. $\left|\frac{3}{4}x + 1\right| + 5 = 11$

I'm checking $x =$

4. _____

5. $\left|\frac{1}{2}x + 4\right| = 6$

I'm checking $x =$

5. _____

6. $\left|\frac{1}{3}x + 2\right| = 7$

I'm checking $x =$

6. _____

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7. $10 = 4 + |2y + 1|$

I'm checking $x =$

7. _____

8. $\left| \frac{5y + 2}{2} \right| = 6$

I'm checking $x =$

8. _____

9. $\left| \frac{w}{2} + \frac{3}{2} \right| - 2 = 7$

I'm checking $x =$

9. _____