Preface

Here are a set of problems for my Algebra notes. These problems do not have any solutions available on this site. These are intended mostly for instructors who might want a set of problems to assign for turning in. I try to put up both practice problems (with solutions available) and these problems at the same time so that both will be available to anyone who wishes to use them.
Absolute Value Equations

For problems 1 – 10 solve each of the equation.

1. \(|2x + 9| = 7\)
2. \(|5w - 2| = 3\)
3. \(|6 - 7t| = 10\)
4. \(2 = \left| \frac{1}{4} m - \frac{1}{3} \right|\)
5. \(|8u + 9| = 9\)
6. \(|x + 3| = 4x + 1\)
7. \(|2z - 7| = 3z - 10\)
8. \(|3y + 9| = 10 - y\)
9. \(|6w + 12| = 1 + w\)
10. \(|8x + 3| = 0\)

For problems 11 – 13 find all the real valued solutions to the equation.

11. \(|x^2 + 1| = -4\)
12. \(|u^2 - 7u| = 12\)
13. \(|z^2 - 6| = z\)