Equations containing Absolute Value

Algorithm

- 1. Isolate the absolute value
- 2. Set the expression and the opposite of that expression on the inside of the absolute value signs equal to the number of the outside
- 3. Solve the resulting two equations

Solve the following equations.

- 1. |x| = 7
- 2. |x-1| = 8
- 3. |2x + 1| = 13
- 4. |x-2|+4=10
- 5. |2x-3|=13
- 6. |3(x-2)| = 12
- 7. |-4x| = 10
- 8. |3x-1| = 5x + 15
- 9. |2x-6|=0
- 10. |5(2x+3)| = -9