# Macintosh HD:Users:Amit:Progs:ExcelerateLive:HTML:ml.png Excelerate Lesson Plan

**Solving Absolute Value Equations**

**About These Problems**

**An absolute value is the magnitude of a number regardless of the sign. For example |-3| = |3| = 3. Solving for these involves ignoring sign in your algebraic manipulation.**

**Question.**  Solve for x.

3|x| + 17 = 23

1. x = 12
2. x = 5
3. x = -1
4. x = -2
5. x = -5

**Answer.** **4**: Remember that sign is irrelevant in absolute value scenarios. So solving for x we get |x| = 2 which is satisfied by either x = 2,-2.