IM3- Solving Absolute Value Equations Homework

Steps for solving:

- 1) Isolate the absolute value term.
- 2) Split into two different equations. One with + and one with .
- 3) Solve each and check your answers.

Examples: Solve algebraically and check graphically.

1) |3x| = 18 3x = 18 3x = -18x = -6



2) $ 5 + x = 5$	
5tx=5	5+x=5
X=0	X=-10







4)
$$\cdot \frac{|x|}{4} = 2 \cdot 4$$

 $|x| = 8$
 $\chi = 8$ $\chi = -8$

5)
$$|v| - 1 = 3$$

 $|v| = 4$
 $\sqrt{2}$
 $\sqrt{2}$



$$7) - |s + 1| = -8$$

 $|St| = 8$
 $St| = 8$
 $St| = 8$
 $St| = -8$
 $St| = -8$
 $St = -9$

