# **Algebra 2: Absolute Values and Inequalities**

#### Algebraic Definition of Absolute Value:

 $| # | \rightarrow \text{Opposite of } #$ 

**Example:** 

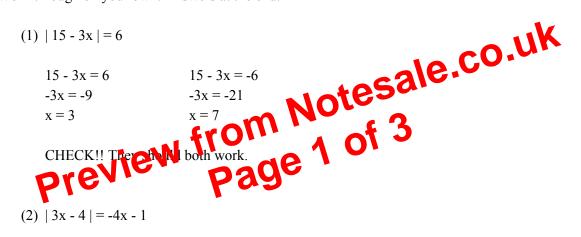
If	$x \ge 0$	, then   x	= x
If	$x \leq 0$	, then   x	= -x

If x = -1Then |x| = 1

## ALWAYS CHECK YOUR ANSWERS FOR EXTRANEOUS SOLUTIONS!!!

## **Example Problems:**

Work through on your own. Answers at the end.



#### **Solving and Graphing Absolute Value Inequalities**

