Absolute Value Equations Absolute Value is the magnitude of a number without regard to its sign or DISTANCE from O is the symbol used for absolute value. Steps to solve equations containing absolute value: 1. Isolate the absolute value expression. 2. Set the quantity $\underline{105100}$ the absolute value to $\underline{+8}$ of the quantity on the other side of the equation. (This is because the distance can be measured from both directions .) 5 3. Solve for the unknown in both equations. 4. CHECK your answers to verify they are actual solutions. Examples: Solve for x. Imples. Solve for ... |x-10|=6 |x-101. |x - 10| = 63. |4x + 6| + 8 = 34. |3x + 2| = 4x + 514x+61=-5 NO SOLUTION check: > (distance cannot be Negative!) EXTRANEOUS SOLUTION" ***Remember: Absolute value is always positive (or 0). An equation such as |x-10| = -50

is NEVER true. It has NO SOLUTION of X= Q

('empty set")