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) $|3 x|=18$

$$
\begin{array}{ll}
3 x=18 & 3 x=-18 \\
x=6 & x=-6
\end{array}
$$


2) $|5+x|=5$
$5+x=5$

$$
x=0
$$

$$
\begin{gathered}
5+x=-5 \\
x=-10
\end{gathered}
$$


3) $\frac{-2|x|}{-2}=\frac{-6}{-2}$

4) $\cdot \frac{|x|}{4}=2 \cdot 4$
$|x|=8$
$x=8 \quad x=-8$

5) $\begin{gathered}|x|-1=3 \\ |v|=4 \\ \text { 仡 }\end{gathered}$
$v=4$
$v=-4$




