A statement involving the word AND is only true if: BOTH parts are true.

A statement involving the word OR is true if:

- One of the statmens is true
- The other statement is true or
- Both statements are true

When you graph two inequalities connected with the word **AND** the final solution is:

The interval where the graphs OVERLAP

When you graph two inequalities connected with the word OR the final solution is:

Anywhere the graph is shaded. (for either or both inequalities)





What is the solution to the above compound inequality using the word....

AND

 $\times \overline{4}$

OR $\chi \leq O$



What is the solution to the above compound inequality using the word....

OR

AND NO SOL

X ≤ -1 or X≥3







Graph of y = a|x - h| + k

a:

• Vertical stretch or shrink factor (slope of sides). • If a<0, x-axis reflection (upside down)

h:

- Horizontal translation
- Vertical translation

k:

• x-h h units right • x+h h units left

- •+k k units up
- •-k k units down