What would have to be true for a compound inequality using the word **AND** to have NO SOLUTION?

- There are no numbers that make both inequalities true.
- Graphs of inequalities don't overlap anywhere.

What would have to be true for a compound inequality using the word **AND** to have a solution of ALL REAL NUMBERS?

- The solution to BOTH inequalities must be All Real Numbers.
- Both graphs must be the entire number line.

What would have to be true for a compound inequality using the word **OR** to have NO SOLUTION?

• Both inequalities must be NO SOLUTION.

What would have to be true for a compound inequality using the word **OR** to have a solution of ALL REAL NUMBERS?

- The solutions to the two inequalities combined must contain all real numbers.
- Graphs must point in opposite directions and overlap.





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

OR

AND

A < - y

 $A \leq 0$ 



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

OR

AND  $\mathcal{NO}$ SUL

WZ-1 OR WZ3





Solve for X. State restrictions on the variables.  $\left(\frac{\mathsf{M}-\mathsf{K}X}{\mathsf{V}}+\mathsf{C}\right)$  $P(\underline{G})$  $G_X = A(M - kx) + ACX$  $G_{X} = AM - AK_{X} + AC_{X}$   $G_{X} = AM - AK_{X} + AC_{X}$   $X = AM + AC_{X} = AM + AC_{X}$   $X = AM + AC_{X} = AM + AC_{X}$   $A \neq 0$   $A \neq 0$  $X = \frac{AM}{G + AK}$ 

 $-C + 2B^2 - A^2 - AC$  $= -(-5) + 2(12)^{2} - (-6)^{2} - (-16)(-8)$ = + 2(144) - (256) = 8 + 265 - 256 - 128 cs

Evaluate for A = -16 B = 12 C = -8