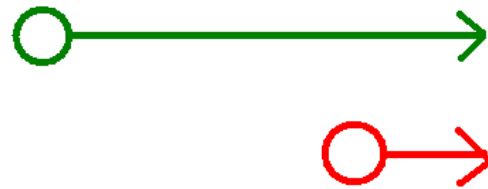
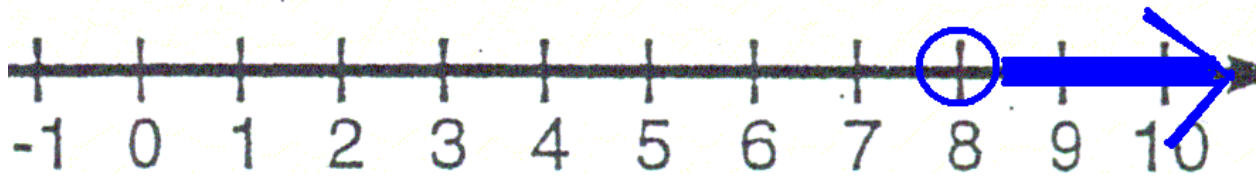


What happens when you have a conjunction (with “AND”) and both inequalities go the same direction?

$$x > 5 \text{ AND } x > 8$$



Where are they BOTH true?

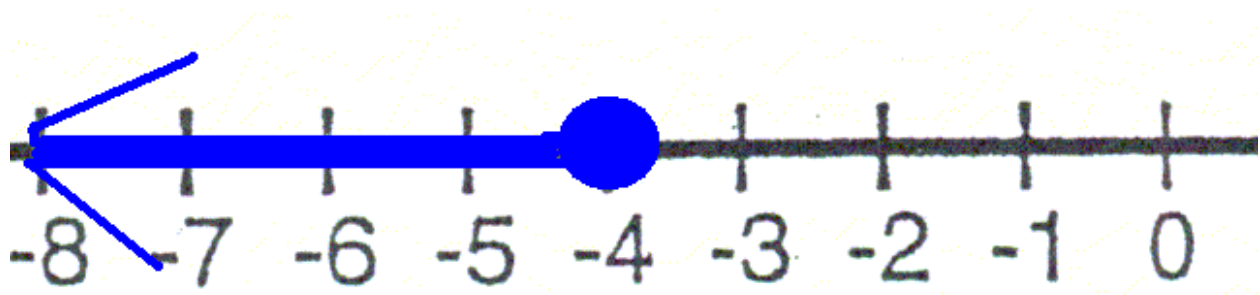


The actual answer is $x > 8$.

$$x \leq -4 \text{ AND } x < 0$$



Where are they
BOTH true?



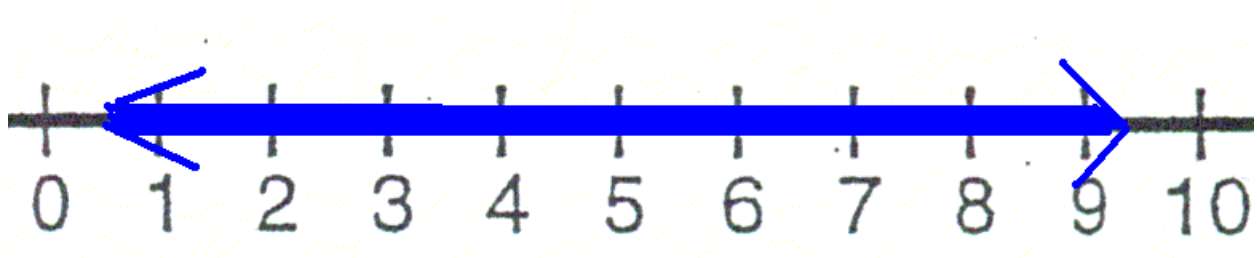
The actual answer is $x \leq -4$.

What might happen with a disjunction (“OR”)?

$$x > 3 \text{ OR } x < 6$$



This is "OR"
where is either
one of them
true?



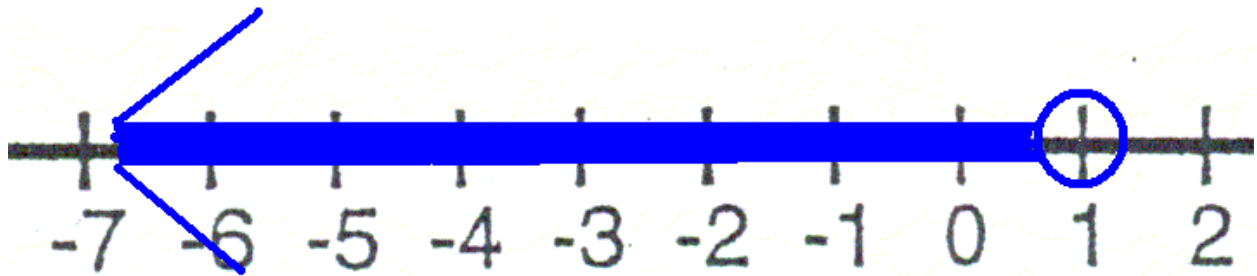
At least one of them (red or green) is true EVERYWHERE,
so the solution is **ALL REAL NUMBERS**.

Here's another disjunction ("OR").

$$x < -3 \text{ OR } x < 1$$



Where is EITHER ONE of these true?



The actual solution is $x < 1$.