Section 2.5: Compound Inequalities

compound inequality: two inequalities joined by either "and" or "or"

are the following compound inequalities True or False?

both must
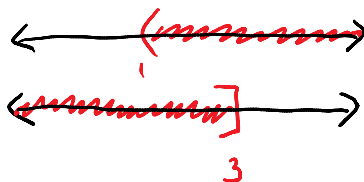be true → $S > 1$ (and) $S > 2$ T

$S < 1$ and $S > 2$ F

$S < 1$ and $S < 2$ F

$S > 1$ or $S > 2$ T

one or the other
or both must
be true → $S < 1$ or $S > 2$ T

$S < 1$ (or) $S < 2$ F

So $X > 1$ and $X \leq 3$, what's the solution set?

overlap