

Objective 3 - Solve Compound Linear Inequalities

Solve linear inequalities.

[Link to section in online textbook.](#)

Watch [this video](#) to learn how to solve compound inequalities. For both kinds of compound inequalities, we first split it into two inequalities, solve separately, then put them back together at the end.

Question 1 $?? < ??$ or $?? > ??$

(

??

,

??

)

U

(

??

,

??

)

Hint: There are four boxes so you can input the entire interval. Each interval should be:

(or [
number or ∞
number or ∞
) or]

Question 2 $?? \leq ??$ or $?? \geq ??$

(

??

,

??

)

U

[

??

,

??

)

Hint: There are four boxes so you can input the entire interval. Each option should be:

(or [
number or ∞
number or ∞
) or]

Learning outcomes: Understand and solve linear inequalities.

Author(s): Darryl Chamberlain Jr.

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Question 3

$$?? < ?? < ??$$

Hint: There are four boxes so you can input the entire interval. Each option should be:

(or [
number or ∞
number or ∞
) or]

Question 4

$$?? \leq ?? \leq ??$$

Hint: There are four boxes so you can input the entire interval. Each option should be:

(or [
number or ∞
number or ∞
) or]