10.4

Solving Combined Inequalities

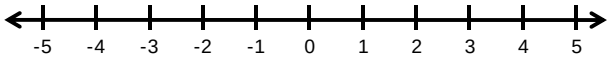
Conjunction

When you solve a CONJUNCTION, you want to find the solution (and graph it) that will fit into both equations at the same time.

"And"

Graph the following.

1) $-2 < x$ ***and*** $x < 3$



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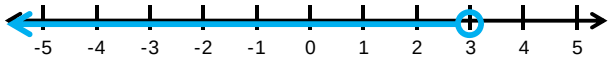

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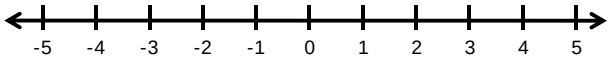

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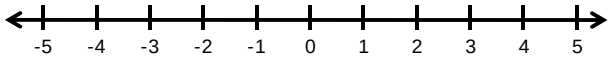


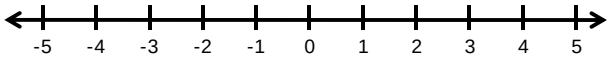
Disjunction

When you solve a DISJUNCTION, you want to find the solution (and graph it) that will fit into one or the other of the equations. Basically, you want to graph both.

"Or"

Graph the following.

2) $-2 < x$ ***and*** $x < 3$



Disjunction

When you solve a DISJUNCTION, you want to find the solution (and graph it) that will fit into one or the other of the equations. Basically, you want to graph both.

"Or"

Graph the following.

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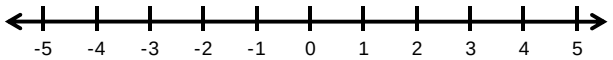

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"Or"

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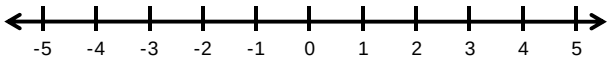

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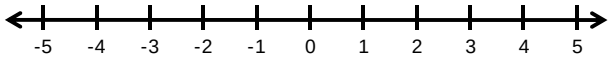

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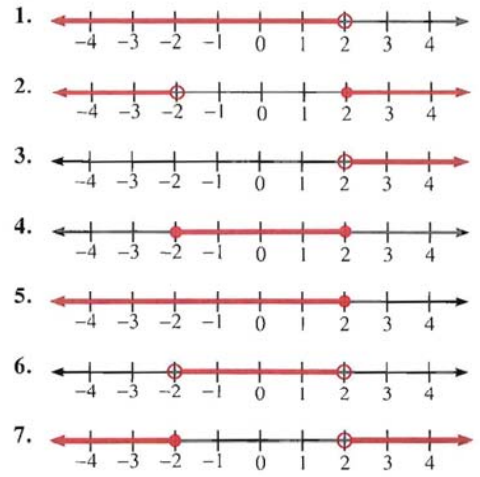
Oral Exercises

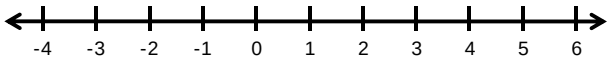
Match each graph with one of the open sentences in a–g.



a. $t > 2$
b. $-2 < t < 2$
c. $-2 \le t \le 2$
d. $t \le 2$
e. $t \le -2$ or $t > 2$
f. $t < 2$
g. $t \ge 2$ or $t < -2$

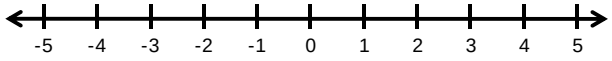
Graph the following.

3) $-3 \le x - 2 < 4$



Graph the following.

4) $-2 < m + 1$ ***and*** $m + 1 \le 4$



Graph the following.

5) $1+5y<-4$ ***or*** $4y>y+9$