

Algebra I

6-4

Solve Compound Inequalities

Label each of the following statements as True or False.

- a) The chalkboard and the floor are black.
- b) The chalkboard or the floor is black.
- c) The walls or ceiling is white.
- d) The walls and the ceiling are white.

Compound inequality -

Graph each inequality.

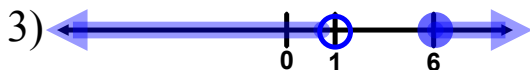
1) $0 \leq x < 3$



2) $4 < x$ or $x \leq -4$



Write a compound inequality for each graph shown.



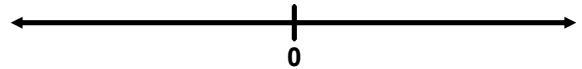
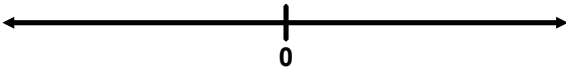
Conjunction-

Disjunction-

Solve.

5) $14 \leq 3x - 4 < 23$

6) $9x + 1 < -17$ or $7x - 12 > 9$



Assignment: pg. 384 1, 3-8 all, 10-26 even, 42-44 even.
