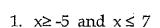


## Compound Inequalities

Name:

AND Notes: 4 where BOTH graphs exist.

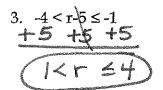


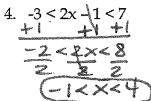


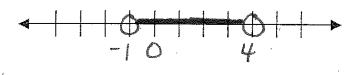
can be written as:

2. 
$$-6 \le 3x < 15$$
 $3 \quad 3 \quad 3$ 
 $-2 \le x < 5$ 

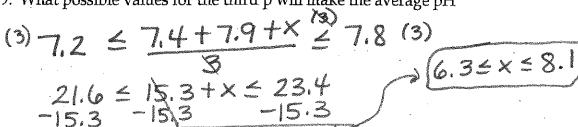




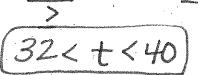




21.6 = 15.3 + x = 23.4 -15.3 -15.3



7. Today's temperature will be above 32 degrees but not as high as 40 degrees.



OR Notes:

of both graphs touch.

1. x < -3 or x > 7



2.  $-2x + 7 > 3 \text{ or } 3x - 4 \ge 5$ 

3. 3x + 2 < -7 or  $-4x + \sqrt{5}$ X4-3 OR XX

4.  $\sqrt{-3c} \ge 1$  or  $5c + 2 \ge 17$ 

52 OK

5. 3q + 2 > 10 or 3q + 2 < -10q<-22/3 24 OK

300. Graph your solution.

6. Write an inequality that represents all real numbers b less than 100 or greater than B<100 or B > 300



7. Write an inequality that represents all real numbers that are at most -5 or at least 3.

Craph your solution X \( \delta -5 \) \( \times \) \( \delta \) Graph your solution.



8.  $3x \neq 8 < 7 \text{ or } 2x - 9 > 1$  $\chi < 5 \propto \chi > 5$ 

