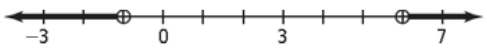
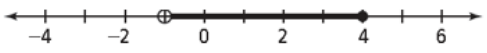
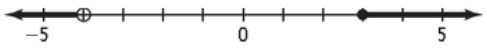
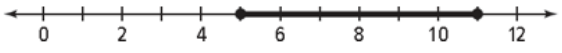
1-6 Compound Inequalities

1.

Match the inequality with its graph.

Compound Inequality	Graph
$x < -4$ or $x \geq 3$	
$x \leq 11$ and $x \geq 5$	
$x \leq 4$ and $x > -1$	
$x < -1$ or $x > 6$	

Write a compound inequality that represents each phrase. Graph the solution.

2. all real numbers that are less than −8 or greater than or equal to 3

Solve each compound inequality. Graph your solution.

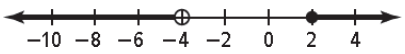
3. $5 < k - 1 < 9$

4. $-2 > y + 3 \geq -10$

5. $5 - m < 4$ or $7m > 35$

6. $3 > \frac{11 + k}{4} \geq -3$

Write a compound inequality that each graph could represent.

7. 

8.