Put in interval notation __AND__ draw a graph of each inequality.
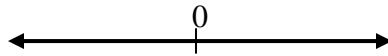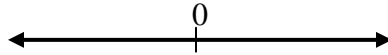
1. $x \geq 4$

                                        0

1._____

2. $x < 6$

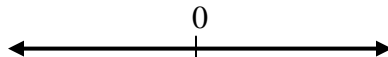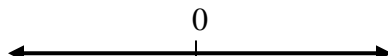   0

2._____

3. $x \leq -2$

     0

3._____

4. $x > 8$

     0

4._____
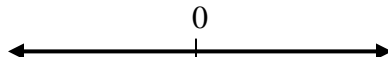
5. $x < -10$
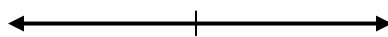
     0

5._____

Write each interval as an inequality, and draw a graph for each.
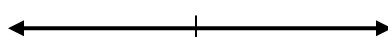
6. $(-\infty, -8]$

6._____

7. $[5, \infty)$
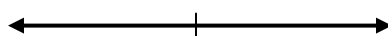
7._____

8. $(-2, \infty)$

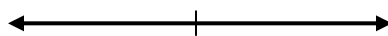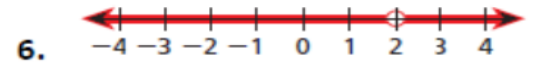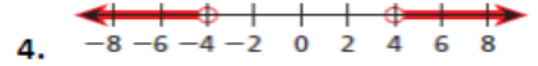8._____

9. $[-10, \infty)$

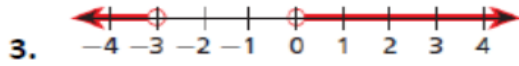9._____

10. $(-\infty, 6)$

10._____

For each number line, write the given set of numbers in interval notation.

1. $-4\ -3\ -2\ -1\ \ 0\ \ 1\ \ 2\ \ 3\ \ 4\ \ 5\ \ 6$

2. $-15\ -10\ \ -5\ \ \ \ 0\ \ \ \ 5$

3. $-4\ -3\ -2\ -1\ \ 0\ \ 1\ \ 2\ \ 3\ \ 4$

4. $-8\ -6\ -4\ -2\ \ 0\ \ 2\ \ 4\ \ 6\ \ 8$

5. $-4\ \ -2\ \ \ 0\ \ \ 2\ \ \ 4\ \ \ 6\ \ \ 8$

6. $-4\ -3\ -2\ -1\ \ 0\ \ 1\ \ 2\ \ 3\ \ 4$
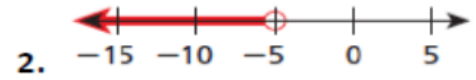
Name the domain and range of each relation using interval notation.

1.

2.

3.

4.

5.

6.