4. Solve the inequalities $8 < 2 + \{2x - 6\}$ express your solution sets using interval notation.

$$(0,6)$$
 $[0,6]$
 $(-\infty,0) \cup (6,+\infty)$
 $(-\infty,0] \cup [6,+\infty)$
Solution

Intervals

6 < 2x - 6 or 2x - 6 < -6

8 < |2x-6| + 2

$$x < 0$$
 or $x > 6$