Simplifying Interval Notation

A. Simplify the given interval notation.

1) $[-7, 0] \cup [-8, 0]$

      Simpliest Form:

2) $[-1, 4) \cup [-4, \infty)$

      Simpliest Form:

3) $(-\infty, 3) \cup (7, \infty)$

      Simpliest Form:

4) $(-\infty, 3) \cup (-3, \infty)$

      Simpliest Form:

5) $(-\infty, 3) \cup [4, 11] \cup [7, \infty)$

      Simpliest Form:

6) $(-\infty, 2] \cup [4, 11) \cup (6, \infty)$

      Simpliest Form:

Polynomial Inequality

B. Give the solution set to the given polynomial inequality.

1) $-(x+1)(x+2)(x+3) \geq 0$

2) $(x+1)(x+2)(x+3) < 0$

      Solution Set:

      Solution Set:

3) $-(x-2)(x+1)^2(x+3) > 0$

6) $(x-1)^3(x+1)(x+2) \geq 0$

Solution Set:

Solution Set:

4) $-(x-1)^3(x+3)^2 \leq 0$

7) $(x-1)(x+2)(x+3) > 0$

Solution Set:

Solution Set:

5) $-(x-2)(x-1)(x+1) > 0$

8) $-(x+1)(x+3)^2 > 0$

Solution Set:

Solution Set: