Name _____ Student No._____ G___/____ Date: _____Score: _____
Nickname: _____ Worksheet No.: _____

Simplifying Interval Notation

A. Simplify the given interval notation.

1) $(-\infty, 2) \cup [-3, 5]$

Simpliest Form:

2) $[-10, 6) \cup [-7, 1)$

Simpliest Form:

3) $(-\infty, 6] \cup (-3, \infty)$

Simpliest Form:

4) $(-\infty, 2) \cup (2, \infty)$

Simpliest Form:

5) $(-\infty, 3) \cup [3, 9] \cup [7, \infty)$

Simpliest Form:

6) $(-\infty, 2] \cup [5, 11) \cup (7, \infty)$

Simpliest Form:

Polynomial Inequality

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

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

5) $(x-1)^2(x+1)^2 < 0$

Solution Set:

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

Solution Set:

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

Solution Set:

8) $-(x-1)(x+1)^4 > 0$

Solution Set: