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

Simplifying Interval Notation

A. Simplify the given interval notation.

1) $(-\infty, 2) \cup (6, \infty)$

Simpliest Form:

2) $[-7, 3) \cup [-4, -1)$

Simpliest Form:

3) $(-\infty, 2) \cup (0, \infty)$

Simpliest Form:

4) $(-3, 3] \cup (-7, 2]$

Simpliest Form:

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

Simpliest Form:

6) $(-\infty, 3) \cup [6, 12] \cup [7, \infty)$

Simpliest Form:

Polynomial Inequality

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

1) $-(x-1)(x+1)(x+2) \leq 0$

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set: