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

Simplifying Interval Notation

A. Simplify the given interval notation.

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

Simpliest Form:

2) $[-1, 3] \cup [7, 10]$

Simpliest Form:

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

Simpliest Form:

4) $[-7, 6] \cup [-6, 4]$

Simpliest Form:

5) $(-\infty, 3) \cup [5, 12] \cup [5, \infty)$

Simpliest Form:

6) $(-\infty, 2) \cup [1, 12] \cup [5, \infty)$

Simpliest Form:

Polynomial Inequality

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

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

7) $(x+2)^2(x+3) \leq 0$

Solution Set:

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

Solution Set: