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

Simplifying Interval Notation

A. Simplify the given interval notation.

1) $[-1, 1) \cup [-5, -1)$

Simplest Form:

2) $(-\infty, 4) \cup (7, \infty)$

Simplest Form:

3) $(-5, 2] \cup (-5, 4]$

Simplest Form:

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

Simplest Form:

5) $(-\infty, 4) \cup [4, 10] \cup [7, \infty)$

Simplest Form:

6) $(-\infty, 4] \cup [6, 12) \cup (5, \infty)$

Simplest Form:

Polynomial Inequality

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

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set:

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

Solution Set: