Scientific Notation

Name : _____

Simplify and express in scientific notation:

Example 1

$(4 \times 10^3) - (2 \times 10^2)$

$= (4 \times 10^2) \times 10 - (2 \times 10^2)$

$= (40 \times 10^2) - (2 \times 10^2)$

$= 38 \times 10^2$

$= \mathbf{3.8 \times 10^3}$

Example 2

$(9 \times 10^5) + (6 \times 10^7)$

$= (9 \times 10^5) + (6 \times 10^5) \times 10^2$

$= (9 \times 10^5) + (600 \times 10^5)$

$= 609 \times 10^5$

$= \mathbf{6.09 \times 10^7}$

Simplify each problem and express the answer in scientific notation.

1) $(6 \times 10^6) - (3 \times$ $0 \times 10^8)$

3) $(7 \times 10^7) + (4 \times$ $\times 10^2)$

5) $(5 \times 10^5) - (8 \times$ $\times 10^5)$

7) $(2 \times 10^8) + (7 \times 10^6)$

8) $(4 \times 10^8) - (3 \times 10^7)$