Name : _____

Scientific Notation

Simplify and express in scientific notation:

Example 1

$(2.5 \times 10^6) + (8.13 \times 10^8)$

$= (2.5 \times 10^6) + (8.13 \times 10^6) \times 10^2$

$= (2.5 \times 10^6) + (813 \times 10^6)$

$= 815.5 \times 10^6$

$= \mathbf{8.155 \times 10^8}$

Example 2

$(1.04 \times 10^{-2}) - (5.9 \times 10^{-5})$

$= (1.04 \times 10^{-5}) \times 10^3 - (5.9 \times 10^{-5})$

$= (1040 \times 10^{-5}) - (5.9 \times 10^{-5})$

$= 1034.1 \times 10^{-5}$

$= \mathbf{1.0341 \times 10^{-2}}$

Simplify each problem and express the answer in scientific notation.

1) $(9.63 \times 10^9) + ($ ... $- (7.1 \times 10^{-3})$

3) $(2.19 \times 10^{-7}) - ($ ... $- (7.8 \times 10^{-5})$

5) $(4 \times 10^3) + (6.1$ ... (5.1×10^6)

7) $(8.28 \times 10^{-5}) - (4.1 \times 10^{-7})$

8) $(2.6 \times 10^{-1}) + (3.48 \times 10^2)$

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