Name : _____

Scientific Notation

Simplify and express in scientific notation:

Example 1

$(4 \times 10^{-9}) + (2 \times 10^{-5})$

$= (4 \times 10^{-9}) + (2 \times 10^{-9}) \times 10^{4}$

$= (4 \times 10^{-9}) + (20000 \times 10^{-9})$

$= 20004 \times 10^{-9}$

$= \mathbf{2.0004 \times 10^{-5}}$

Example 2

$(5 \times 10^{7}) - (3 \times 10^{4})$

$= (5 \times 10^{4}) \times 10^{3} - (3 \times 10^{4})$

$= (5000 \times 10^{4}) - (3 \times 10^{4})$

$= 4997 \times 10^{4}$

$= \mathbf{4.997 \times 10^{7}}$

Simplify each problem and express the answer in scientific notation.

1) $(9 \times 10^{-3}) + (1 \times \ldots \times 10^{6})$

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3) $(2 \times 10^{-4}) - (5 \times \ldots \times 10^{5})$

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5) $(7 \times 10^{-6}) + (3 \times \ldots \times 10^{4})$

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7) $(6 \times 10^{5}) - (2 \times 10^{2})$

8) $(8 \times 10^{3}) + (9 \times 10^{-1})$