

Scientific Notation

Add/Sub: ES2

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} &(4 \times 10^3) - (2 \times 10^2) \\ &= (4 \times 10^2) \times 10 - (2 \times 10^2) \\ &= (40 \times 10^2) - (2 \times 10^2) \\ &= 38 \times 10^2 \\ &= \mathbf{3.8 \times 10^3} \end{aligned}$$

Example 2

$$\begin{aligned} &(9 \times 10^5) + (6 \times 10^7) \\ &= (9 \times 10^5) + (6 \times 10^5) \times 10^2 \\ &= (9 \times 10^5) + (600 \times 10^5) \\ &= 609 \times 10^5 \\ &= \mathbf{6.09 \times 10^7} \end{aligned}$$

Simplify each problem.

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

Answer : _____

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

Answer : _____

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

Answer : _____

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

Answer : _____

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

Answer : _____

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tion.

$10^8)$

$\mathbf{6 \times 10^9}$

$0^2)$

$\mathbf{2.98 \times 10^4}$

$0^5)$

Answer : $\mathbf{8.9 \times 10^6}$

Answer : $\mathbf{3.7 \times 10^8}$