

Scientific Notation

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 and express the answer in scientific notation.

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

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

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

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

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

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