

Scientific Notation

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} & (6 \times 10^2) + (5 \times 10^5) \\ &= (6 \times 10^2) + (5 \times 10^2) \times 10^3 \\ &= (6 \times 10^2) + (5000 \times 10^2) \\ &= 5006 \times 10^2 \\ &= \mathbf{5.006 \times 10^5} \end{aligned}$$

Example 2

$$\begin{aligned} & (3 \times 10^{-3}) - (2 \times 10^{-6}) \\ &= (3 \times 10^{-6}) \times 10^3 - (2 \times 10^{-6}) \\ &= (3000 \times 10^{-6}) - (2 \times 10^{-6}) \\ &= 2998 \times 10^{-6} \\ &= \mathbf{2.998 \times 10^{-3}} \end{aligned}$$

Simplify each problem and express the answer in scientific notation.

1) $(3 \times 10^{-2}) - (6 \times 10^{-1})$

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

5) $(5 \times 10^6) - (8 \times 10^{-4})$

7) $(3 \times 10^{-9}) + (5 \times 10^{-5})$

8) $(2 \times 10^8) - (4 \times 10^5)$

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