

Scientific Notation

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} & (3 \times 10^4) + (7 \times 10^2) \\ &= (3 \times 10^2) \times 10^2 + (7 \times 10^2) \\ &= (300 \times 10^2) + (7 \times 10^2) \\ &= 307 \times 10^2 \\ &= \mathbf{3.07 \times 10^4} \end{aligned}$$

Example 2

$$\begin{aligned} & (5 \times 10^{-5}) - (2 \times 10^{-8}) \\ &= (5 \times 10^{-8}) \times 10^3 - (2 \times 10^{-8}) \\ &= (5000 \times 10^{-8}) - (2 \times 10^{-8}) \\ &= 4998 \times 10^{-8} \\ &= \mathbf{4.998 \times 10^{-5}} \end{aligned}$$

Simplify each problem and express the answer in scientific notation.

1) $(4 \times 10^2) - (2 \times \quad \times 10^1)$

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

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

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

8) $(9 \times 10^{-5}) + (6 \times 10^{-2})$

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