

Scientific Notation

Add/Sub: DS1

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} & (1.2 \times 10^2) + (3.04 \times 10^5) \\ &= (1.2 \times 10^2) + (3.04 \times 10^2) \times 10^3 \\ &= (1.2 \times 10^2) + (3040 \times 10^2) \\ &= 3041.2 \times 10^2 \\ &= \mathbf{3.0412 \times 10^5} \end{aligned}$$

Example 2

$$\begin{aligned} & (5.54 \times 10^{-6}) - (2.32 \times 10^{-8}) \\ &= (5.54 \times 10^{-8}) \times 10^2 - (2.32 \times 10^{-8}) \\ &= (554 \times 10^{-8}) - (2.32 \times 10^{-8}) \\ &= 551.68 \times 10^{-8} \\ &= \mathbf{5.5168 \times 10^{-6}} \end{aligned}$$

Simplify each problem.

1) $(2.3 \times 10^4) + (4.1 \times 10^4)$

Answer : _____

3) $(6.07 \times 10^{-1}) - (4.1 \times 10^{-1})$

Answer : _____

5) $(5.692 \times 10^{-4}) + (3.04 \times 10^{-4})$

Answer : _____

7) $(9.18 \times 10^9) - (3.9 \times 10^6)$

Answer : _____

Simplify each problem.

$(5.54 \times 10^{-6}) - (2.32 \times 10^{-8})$

$(6.07 \times 10^{-1}) - (4.1 \times 10^{-1})$

$(5.692 \times 10^{-4}) + (3.04 \times 10^{-4})$

Answer : _____

8) $(1.7 \times 10^{-1}) + (6.504 \times 10^2)$

Answer : _____

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Example 1

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Example 2

$$\begin{aligned} & (5.54 \times 10^{-6}) - (2.32 \times 10^{-8}) \\ &= (5.54 \times 10^{-8}) \times 10^2 - (2.32 \times 10^{-8}) \\ &= (554 \times 10^{-8}) - (2.32 \times 10^{-8}) \\ &= 551.68 \times 10^{-8} \\ &= \mathbf{5.5168 \times 10^{-6}} \end{aligned}$$

Simplify each problem.

1) $(2.3 \times 10^4) + (4.1 \times 10^4)$

Answer : 4

3) $(6.07 \times 10^{-1}) - (4.1 \times 10^{-1})$

Answer : 5

5) $(5.692 \times 10^{-4}) + (0.1 \times 10^{-2})$

Answer : 6.572 × 10⁻⁴

7) $(9.18 \times 10^9) - (3.9 \times 10^6)$

Answer : 9.1761 × 10⁹

Simplify each problem.

2) $(5.54 \times 10^{-6}) - (2.32 \times 10^{-8})$

Answer : 5.5168 × 10⁻⁶

4) $(6.07 \times 10^{-1}) - (4.1 \times 10^{-1})$

Answer : 1.9676 × 10⁷

6) $(5.692 \times 10^{-4}) + (0.1 \times 10^{-2})$

Answer : 4.5998 × 10²

8) $(1.7 \times 10^{-1}) + (6.504 \times 10^2)$

Answer : 6.5057 × 10²**PREVIEW**

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