

Scientific Notation

Add/Sub: DS3

Simplify and express in scientific notation:

Example 1

$$\begin{aligned} & (6.2 \times 10^{-2}) + (5.2 \times 10^{-4}) \\ &= (6.2 \times 10^{-4}) \times 10^2 + (5.2 \times 10^{-4}) \\ &= (620 \times 10^{-4}) + (5.2 \times 10^{-4}) \\ &= 625.2 \times 10^{-4} \\ &= \mathbf{6.252 \times 10^{-2}} \end{aligned}$$

Example 2

$$\begin{aligned} & (8.45 \times 10^5) - (3.6 \times 10^3) \\ &= (8.45 \times 10^3) \times 10^2 - (3.6 \times 10^3) \\ &= (845 \times 10^3) - (3.6 \times 10^3) \\ &= 841.4 \times 10^3 \\ &= \mathbf{8.414 \times 10^5} \end{aligned}$$

Simplify each problem.

1) $(7.18 \times 10^{-7}) + (9.2 \times 10^{-2})$

Answer : _____

3) $(5.42 \times 10^2) - (2.1 \times 10^{-5})$

Answer : _____

5) $(7.14 \times 10^4) + (2.3 \times 10^{-7})$

Answer : _____

7) $(4.8 \times 10^3) - (1.9 \times 10^{-1})$

Answer : _____

Simplify each problem.

2) $(8.5 \times 10^2) - (3.6 \times 10^3)$

4) $(5.8 \times 10^{-5}) - (2.1 \times 10^{-2})$

6) $(7.14 \times 10^4) + (2.3 \times 10^{-7})$

Answer : _____

8) $(5.62 \times 10^8) + (6.7 \times 10^5)$

Answer : _____

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Example 2

$$\begin{aligned} & (8.45 \times 10^5) - (3.6 \times 10^3) \\ &= (8.45 \times 10^3) \times 10^2 - (3.6 \times 10^3) \\ &= (845 \times 10^3) - (3.6 \times 10^3) \\ &= 841.4 \times 10^3 \\ &= \mathbf{8.414 \times 10^5} \end{aligned}$$

Simplify each problem.

1) $(7.18 \times 10^{-7}) + (9.54 \times 10^2)$

Answer : 7.1992 × 10⁶

3) $(5.42 \times 10^2) - (2.93 \times 10^{-5})$

Answer : 5.42 × 10²

5) $(7.14 \times 10^4) + (2.54 \times 10^{-7})$

Answer : 7.1689 × 10⁴

7) $(4.8 \times 10^3) - (1.9 \times 10^{-1})$

Answer : 4.7998 × 10³

Simplify each problem.

2) $(8.45 \times 10^5) - (3.6 \times 10^3)$

Answer : 8.414 × 10⁵

4) $(5.42 \times 10^2) - (2.93 \times 10^{-5})$

Answer : 5.42 × 10²

6) $(7.14 \times 10^4) + (2.54 \times 10^{-7})$

Answer : 7.1689 × 10⁴

8) $(5.62 \times 10^8) + (6.7 \times 10^5)$

Answer : 5.6267 × 10⁸

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