

Name : \_\_\_\_\_

## 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 and express the answer in scientific notation.

1)  $(7.18 \times 10^{-7}) + (3.2 \times 10^2)$

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3)  $(5.42 \times 10^2) - (5.8 \times 10^{-5})$

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5)  $(7.14 \times 10^4) + (3.2 \times 10^{-7})$

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

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

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