

Floating Point Numbers

Addition

Compute the following floating point number operations assuming that both numbers are represented in floating point format with base $b=10$ and a mantissa with a length of four digits.

a) $0.8672 + 0.6935$

b) $5.63 + 0.056879$

c) $510 + 0.001693$

Floating Point Numbers

Subtraction

Compute the following floating point number operations assuming that both numbers are represented in floating point format with base $b=10$ and a mantissa with a length of four digits.

$$a) 0.9527 - 0.3615$$

$$b) 78.5 - 3.6285$$

$$c) 1.7059 - 1.7048$$

Floating Point Numbers

Multiplication

Compute the following floating point number operations assuming that both numbers are represented in floating point format with base $b=10$ and a mantissa with a length of four digits.

a) $63.2 * 3.159$

b) $0.056793 * 0.0049735$

c) $9,387.52 * 365.27$