

## 5.2 Adding And Subtracting Decimals

Recall

1. If operation is subtraction, then change subtraction by adding opposite.
2. Follow addition rule.
  - (i) Same sign, add the numbers and keep the common sign.
  - (ii) Different sign, subtract the numbers (Large – Small) and keep the sign of larger number.

### \* Adding or Subtracting Decimal Number

1. Line up decimal points vertically
2. Add or subtract as with whole numbers

**Ex 1.** Perform indicated operations.

a.  $19.52 + 5.371$

b.  $7.12 + (-9.92)$

c.  $9.72 - 4.068$

d.  $-5.4 - 9.6$

e.  $-1.05 - (-7.23)$

f. subtract 25.91 from

g.  $-34.567 + (-129.43) - 2.8903$

h.  $1940.08 - 23.987 - (-17.612)$

**\* Simplifying Expressions Containing Decimals**

**Ex 2.** Simplify.

a.  $-4.3y + 7.8 - 20.1y - (-14.6)$

b.  $11.1x - 6.3xy + 8.9yx - 4.6x$

**Ex 3.** Find the total monthly cost of owning and operating a certain automobile given the expenses shown. Monthly car payment: \$563.52, Monthly insurance cost: \$52.68, Average gasoline bill per month: \$127.50.

**Ex 4.** Find the perimeter of a triangle flag whose sides are 10.6 ft, 5.8 ft, and 19.6 ft.