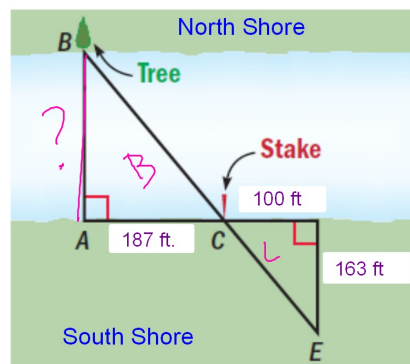1. The price for a barrel of crude oil is 3196.08 Rubles/barrel
(Rubles is Russian currency)   Convert this into $US per gallon

   1 Liter = 1.0567 qts   1 barrel = 119.24 Liters

   $1 US = 32.73 Rubles   4 qts = 1 gallon

$$\frac{3196.08\ R}{1B} \cdot \frac{\$1\ us}{32.73R} \cdot \frac{1B}{119.24L} \cdot \frac{1L}{1.0567Q} \cdot \frac{4QT}{1gal}$$
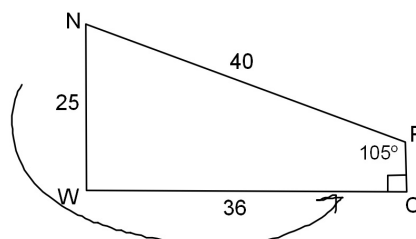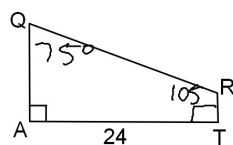
$$\$3.10/gal$$

2.   To measure the distance across a river measurements were taken on the South Shore. How far is it directly across the river from the South Shore to the North Shore?

$$\frac{L}{B}$$

$$\frac{163}{AB} = \frac{100}{187}$$

$$304.81$$

3. These two figures are similar.

a. Write a similarity statement.

$$QATR \sim NWCP$$

b. Find the measure of $\angle R. \cong 105°$

c. Find the measure of $\angle N$.

$$75°$$

d. Find the length of $\overline{QR}$.

Use a proportion:

$$\frac{QR}{40} = \frac{24}{36} \qquad QR = 26.67$$