



Dear students,

Below are the solutions to assignment #1.

2.4 Convert the following distances given in meters to U.S. survey feet:

(a)* 4129.57 m 13,548.44 sft

(b) 686.504 m 2252.30 sft

(c) 5684.237 m 18,649.03 sft

2.5 Convert the following distances given in survey feet to meters:

(a)* 537.52 sft 163.836 m

(b) 504,864.39 sft 153,882.97 m or 153,882.974 m

(c) 3874.26 sft 1180.88 m or 1180.877 m

2.7 Express 48,983 sft² in:

(a)* acres 1.1245 ac

(b) hectares 0.44151 ha

(c) square Gunter's chains 11.245 sq. ch.

2.10 What is the area in acres of a rectangular parcel of land measured with a Gunter's chain if the recorded sides are as follows:

(a)* 9.17 ch and 10.64 ch 9.76 ac

(b) 30 ch 6 lk and 24 ch 98 lk 75.09 ac



2.16 Convert the angles of a triangle to radians and show a computational check:

(a) $39^{\circ}41'54''$, $91^{\circ}30'16''$, and $48^{\circ}47'50''$ 0.692867, 1.59705, and 0.851672

$$0.6928666 + 1.597054 + 0.8516721 = \underline{3.14059 \text{ check}}$$

(b) $82^{\circ}17'43''$, $29^{\circ}05'54''$, and $68^{\circ}36'23''$ 1.43632, 0.507862, and 1.19741

$$1.436324 + 0.5078617 + 1.197407 = \underline{3.14159 \text{ check}}$$

GOOD LUCK,