

CVG 2171 – Surveying and Measurements
Assignment # 1 – Units and Significant Figures

Due Date: January 26, 2018 @ the beginning of the tutorial session

Name: _____

Student No.: _____

Notes: **Make sure to include the correct conversion factors for each question and show all intermediate steps

- 2.4** Convert the following distances given in meters to U.S. survey feet:
- (a)* 4129.57 m
 - (b) 686.504 m
 - (c) 5684.237 m

- 2.5** Convert the following distances given in survey feet to meters:
- (a)* 537.52 sft
 - (b) 504,864.39 sft
 - (c) 3874.26 sft

2.7 Express 48,983 sft² in:

(a)* acres

(b) hectares

(c) square Gunter's chains

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

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

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 $48^{\circ}47'50''$

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