Surveying

Homework # 1

Question # 1:

Find the difference in magnitude between the two angles (**A-B)** as shown below, and

express your answer in degree minutes and seconds. Show your calculation.

        i.   **Angle A:** 255^0 58' 55''

        ii. **Angle B:** 71.55^0

Question # 2:

How many Hectares are contained in the rectangular area of 298 Acres?

1 Acre = 43560 ft^2, 1 Hectare = 10000 m^2

Question # 3:

How many Acres are contained in the rectangular area of 282 Hectares?

1 Acre = 43560 ft^2, 1 Hectare = 10000 m^2

Question # 4:

The area on Map was measured and found to be 5000 cm^2 and measured on the field and

found to be 120 Acres. What will be the length of a street in meters that appears on the

Map with **12 in** length? 1 Hectare = 10000 square meter.

Question # 5:

A rectangular building with **490m** length and **225m** width has to be drawn in A3 paper (
297 mm x 420mm) . Set out the suitable orientation and one unique scale for the whole
Map where the building appears *as large as possible* on A3 paper. **Only** consider choosing
scale that is multiple of **100.**