Math 222-homework-2 (84)

Name: _____

ID: _____

Marks: $\left[\dfrac{\quad}{5}\right]$

Question 1

Derive (prove) the Law of Cosine $c^2 = a^2 + b^2 - 2ab\cos C$

(all details are needed)

Question 2

A ship sails 18.0 km due (toward) east, turns $20o$ north of east, and then continues for another 12.5 km. Find its distance from the starting point.

(All details (drawing etc.) are needed)