

(a) Show that  $\cos \theta = \frac{3}{4}$  (3 Marks)

Not Drawn to Scale

**Link to Solutions:** <https://youtu.be/MXtBVyzJKsM>

- 2 The diagram shows the journey of a student on a school campus. He walks 600 m due north from the Auditorium at point A to the Library at point L. He then walks on a bearing of  $\theta$  to the canteen at point C. He finally walks back to the Auditorium which is a distance of 900 m.

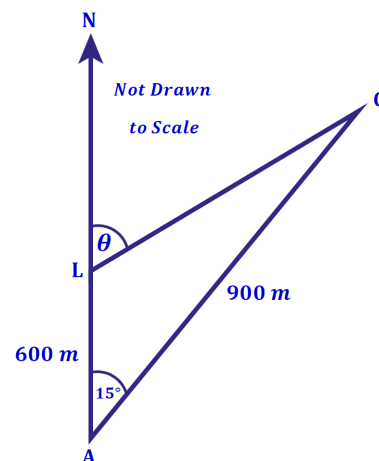
(a) Calculate the distance between the Library and the Canteen. (3 Marks)

(b) Find the bearing of the Canteen from the Library. (4 Marks)

(c) Work out the area enclosed by his walk. (3 Marks)

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