

126 = 11 days to go!

19 From a lighthouse, L, a ship can be seen 30 km away on a bearing of 030°

From L, an oil rig can be seen 43 km away on a bearing of 120°

Calculate the direct distance between the ship and the oil rig.

A solution by scale drawing will not be accepted.

Answer _____ km [5]

The equation

$$x^3 + 4x = 170$$

has a solution between 5 and 6.

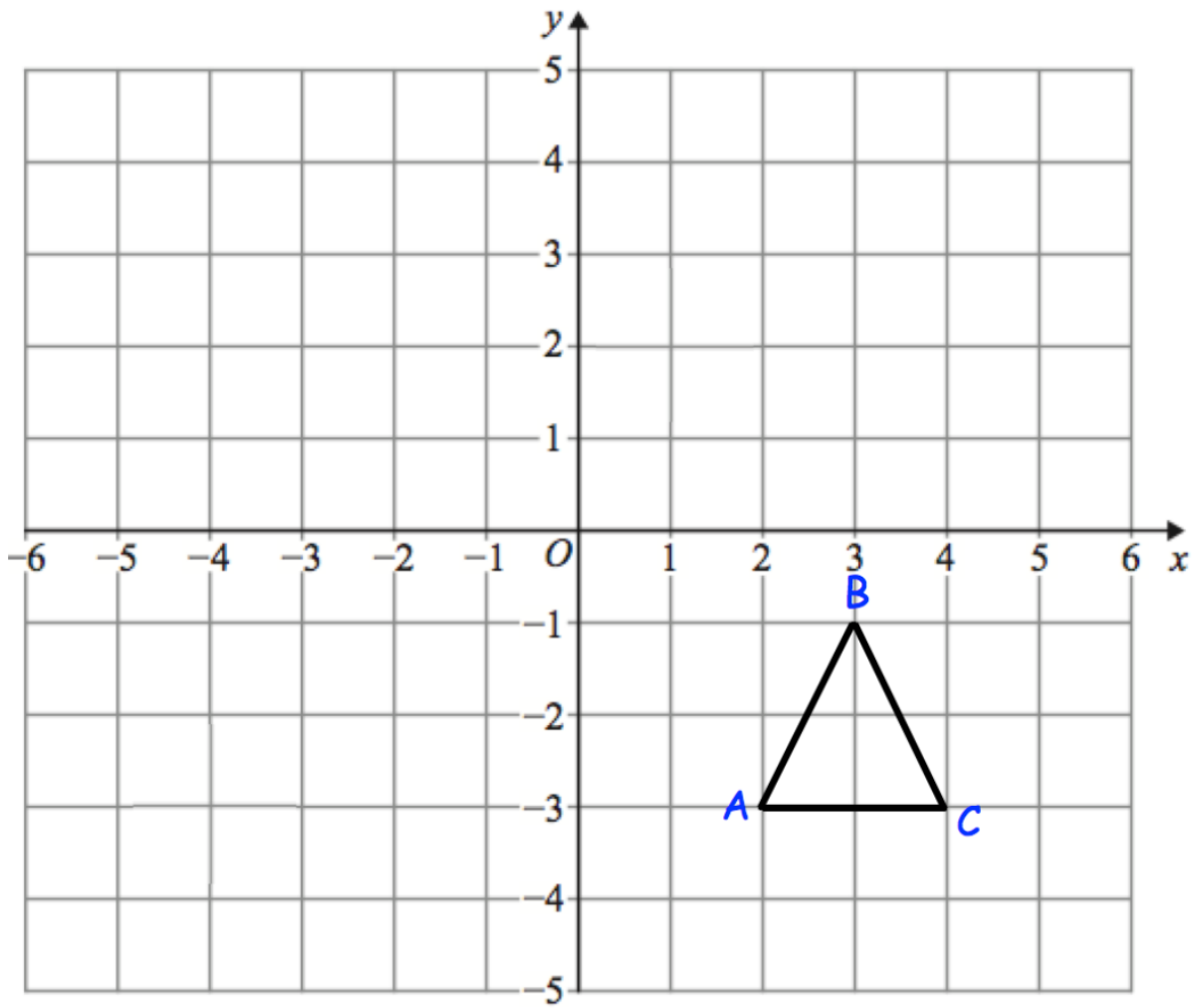
Use trial and improvement to find this solution.

Give your answer correct to 2 decimal places.

You must show all your working.

$x = \dots\dots\dots$

(4)



Rotate triangle ABC 90° clockwise about centre (1, 2)

(3)