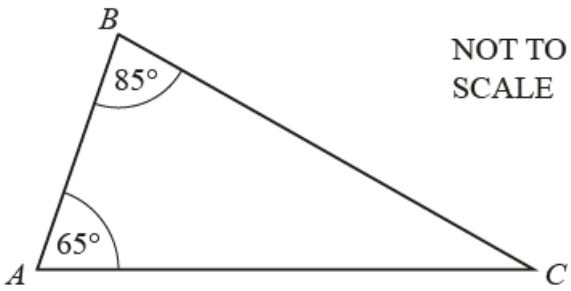
Trigonometry – 2022 Nov IGCSE 0444 Math

1. Nov/2022/Paper_23/No.21

(a)



NOT TO SCALE

C is due east of A.

Find the bearing of

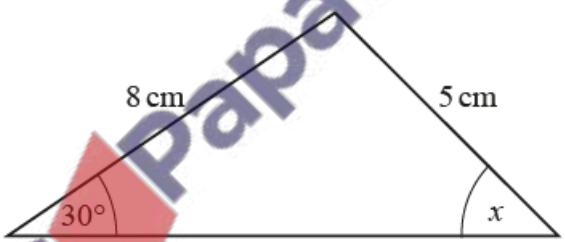
(i) A from B

..... [1]

(ii) B from C.

..... [2]

(b)



NOT TO SCALE

Find the value of $\sin x$.

..... [2]

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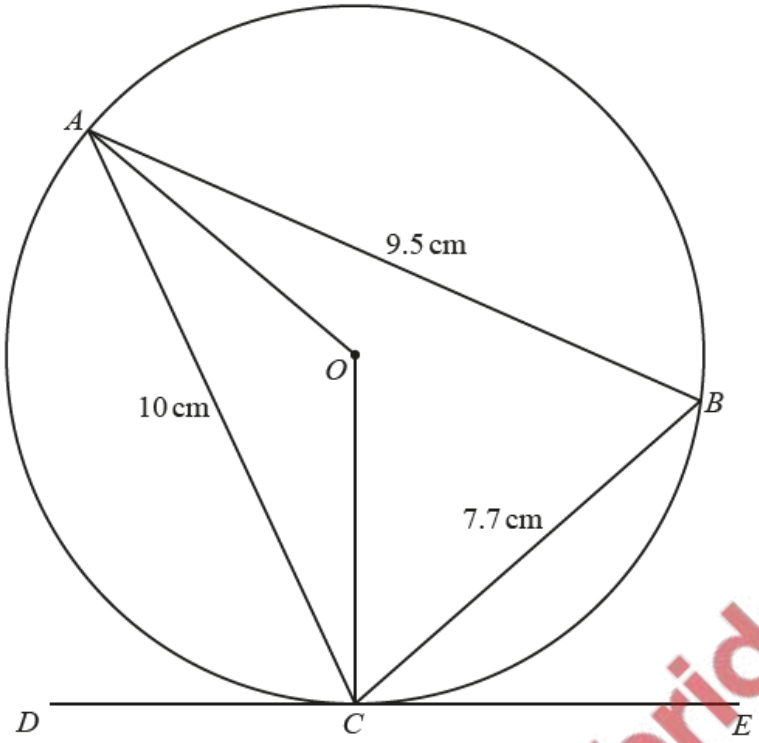
2. Nov/2022/Paper_43/No.8



NOT TO SCALE

A, B and C are points on the circle, center O.
DE is a tangent to the circle at C.
$AC = 10\,\text{cm}$, $AB = 9.5\,\text{cm}$, and $BC = 7.7\,\text{cm}$.

(a) Show that angle $ABC = 70.2°$, correct to 1 decimal place.

[4]

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(b) Find

(i) angle AOC

Angle AOC = ... [1]

(ii) angle ACO

Angle ACO = ... [1]

(iii) angle ACD.

Angle ACD = ... [1]

(c) Calculate the radius, OC, of the circle.

OC = ... cm [3]

(d) Calculate the area of triangle ABC as a percentage of the area of the circle.

..... % [4]

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