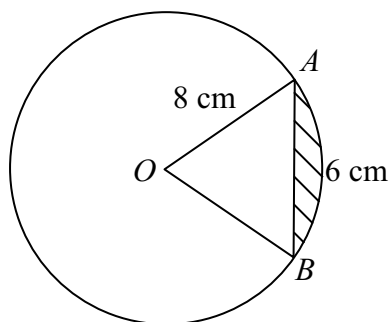


6



### Figure 1

Figure 1 shows a circle, centre  $O$ , with radius 8 cm. The arc  $AB$  has length 6 cm.

- (a) Find, in radians, the size of angle  $AOB$ . (2)
- (b) Find the area of the sector  $AOB$ . (2)
- (c) Find, to 3 significant figures, the area of the shaded segment. (3)

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

(Total for Question 6 is 7 marks)

