

4

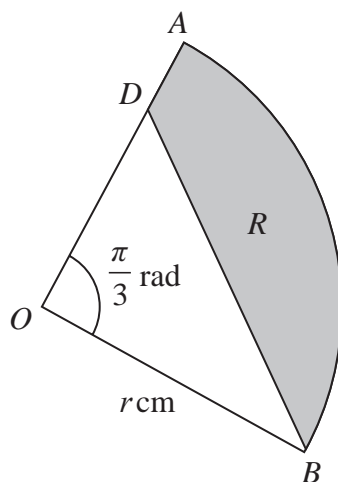
Diagram **NOT**
accurately drawn**Figure 1**

Figure 1 shows sector OAB of a circle with centre O and radius r cm.

The angle $AOB = \frac{\pi}{3}$ radians.

The point D divides OA in the ratio 3 : 1

The area of the region R , shown shaded in Figure 1, is 79.5 cm^2

- (a) Calculate the value, to 2 significant figures, of r (4)
- (b) Calculate the perimeter, in cm to 2 significant figures, of the region R (4)

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Question 4 continued

Handwriting practice area with horizontal dotted lines.

(Total for Question 4 is 8 marks)

