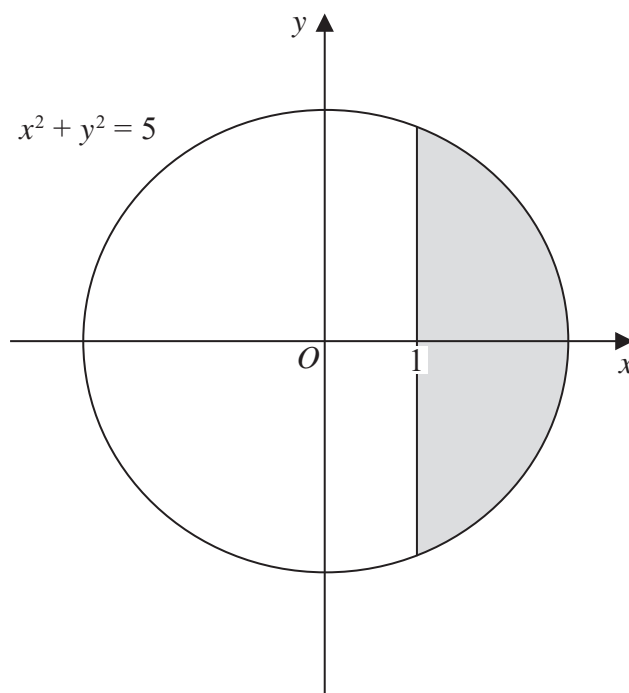


3

Diagram **NOT**
accurately drawn**Figure 2**

The region enclosed by the circle with equation $x^2 + y^2 = 5$ and the straight line with equation $x = 1$, shown shaded in Figure 2, is rotated through 360° about the y -axis.

Use algebraic integration to find the exact volume of the solid generated.

(5)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Question 3 continued

Handwriting practice area with horizontal dotted lines.

(Total for Question 3 is 5 marks)

