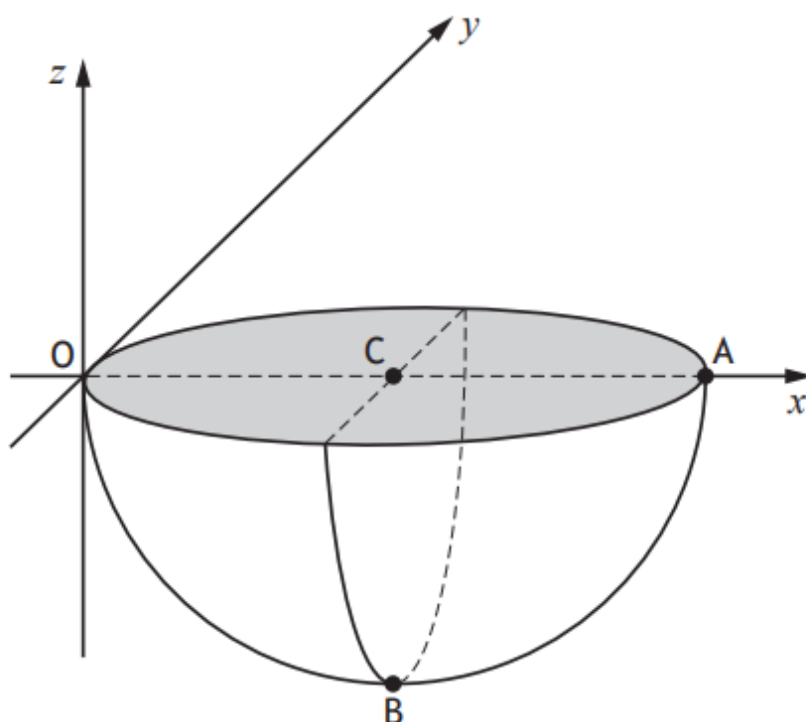


The diagram shows a hemisphere relative to the coordinate axes.



- A is the point $(6, 0, 0)$
- C is the midpoint of diameter OA
- B is vertically below C

(a) State the coordinates of B. 1

(b) Calculate the volume of the hemisphere.

Give your answer in its simplest form in terms of π . 2

Answers:

(a) $(3, 0, -3)$

(b) 18π