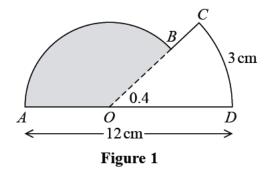
2.



The shape ABCDOA, as shown in Figure 1, consists of a sector COD of a circle centre O joined to a sector AOB of a different circle, also centre O.

Given that arc length CD = 3 cm, $\angle COD = 0.4$ radians and AOD is a straight line of length 12 cm,

(a) find the length of *OD*,

2)

(b) find the area of the shaded sector *AOB*.

(3)