Corbett maths

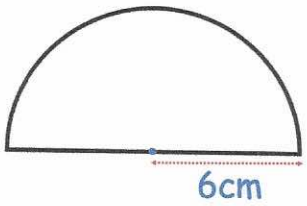
Area: Sectors

Video 46 on www.corbettmaths.com

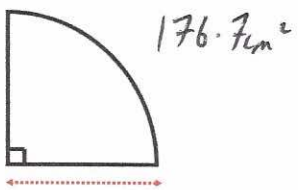
Workout

Question 1: Calculate the area of each of the following sectors.
Give each answer to one decimal place and include units.

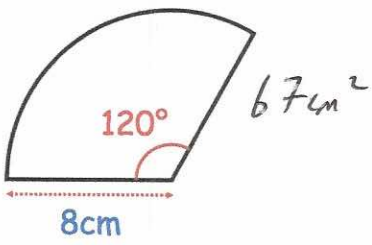
(a)



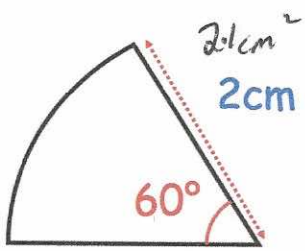
(b)



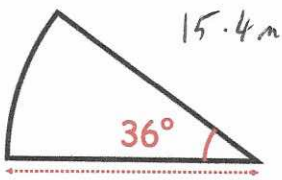
(c)



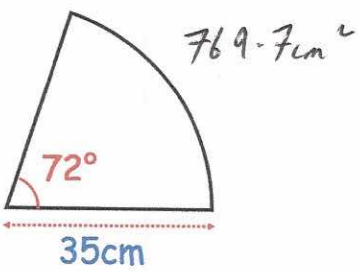
(d)



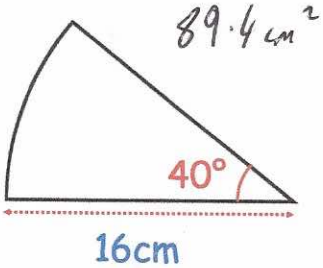
(e)



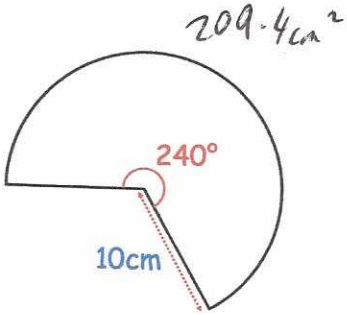
(f)



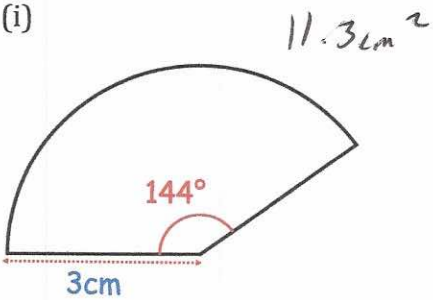
(g)



(h)

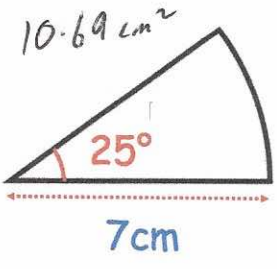


(i)

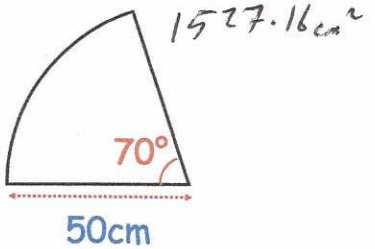


Question 2: Calculate the area of each of these sectors.
Give each answer to 2 decimal places and include suitable units.

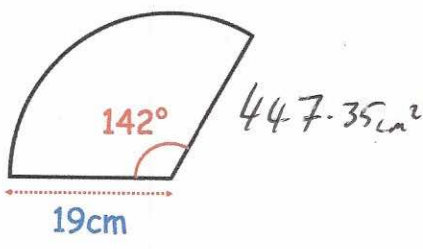
(a)



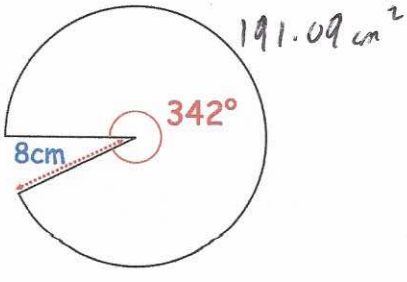
(b)



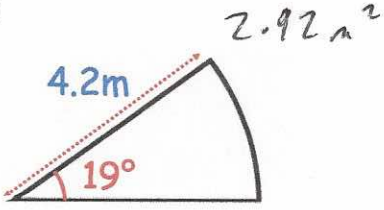
(c)



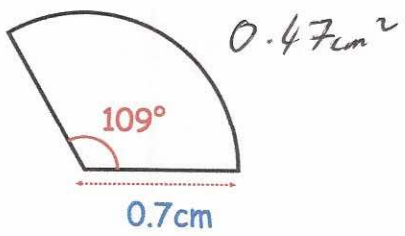
(d)



(e)



(f)



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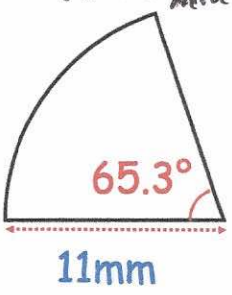
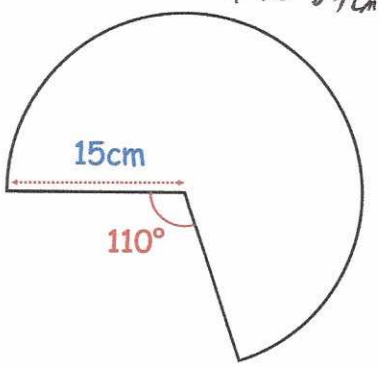
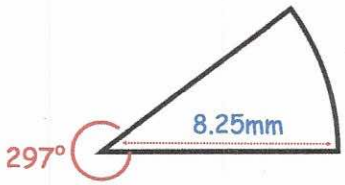
(g) $68.95\ mm^2$



(h) $490.87\ cm^2$

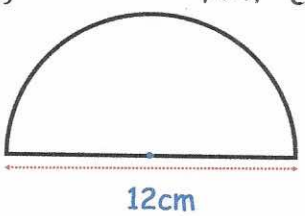


(i) $37.42\ mm^2$

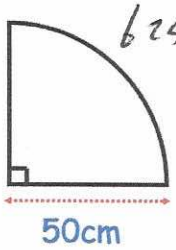


Question 3: Find the area of these sectors.
Leave your answer in terms of π

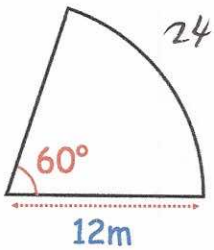
(a) $18\pi\ cm^2$



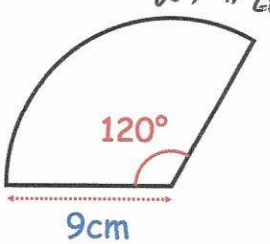
(b) $625\pi\ cm^2$



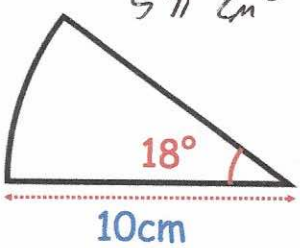
(c) $24\pi\ m^2$



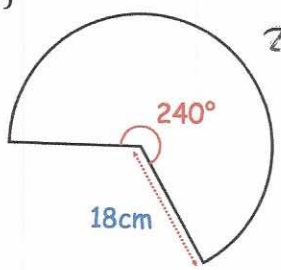
(d) $27\pi\ cm^2$



(e) $5\pi\ cm^2$

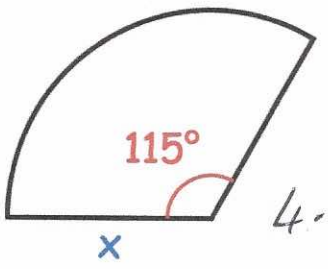


(f) $216\pi\ cm^2$

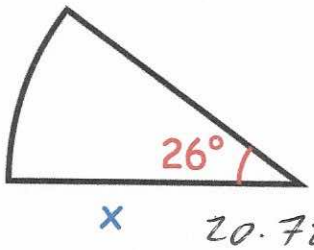


Question 4: The areas of these sectors have been given.
Calculate x.

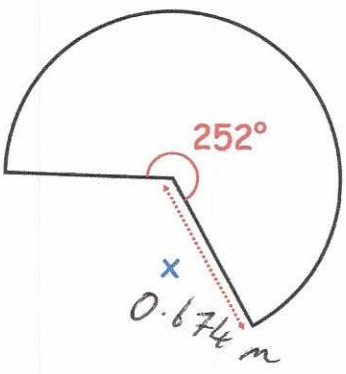
(a) Area = $20cm^2$



(b) Area = $98cm^2$



(c) Area = $1m^2$



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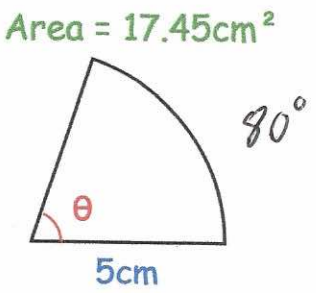
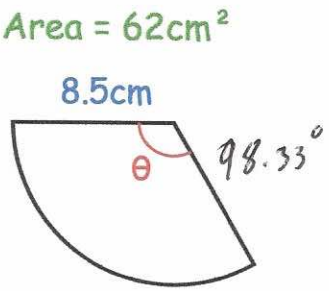
Question 5: The areas of these sectors have been given.
Calculate the missing angles.

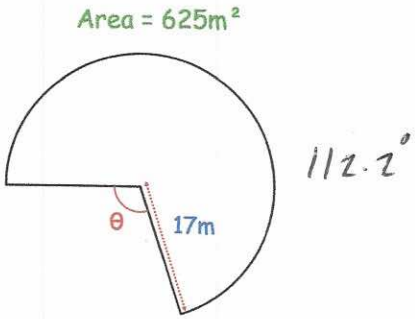
(a)



(b)

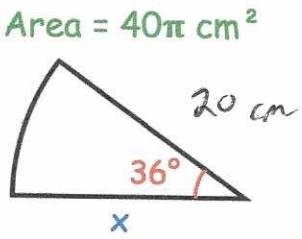


(c)

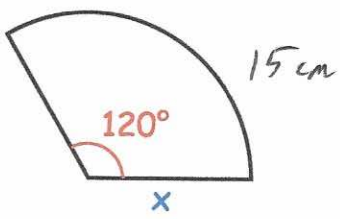


Question 6: The areas these sectors have been given in terms of **π**.
Work out x

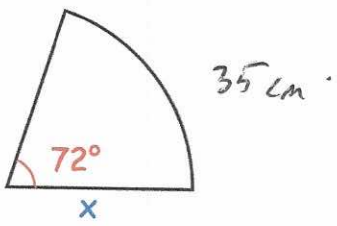
(a)



(b)

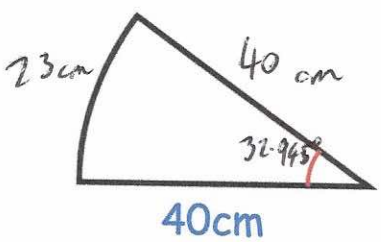


(c)



Apply

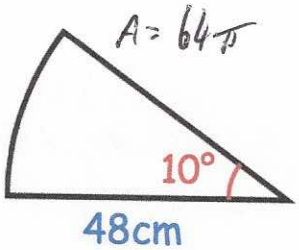
Question 1: The perimeter of the sector below is 103cm
Find the area of the sector

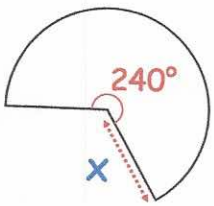


460 cm²

Question 2: These two sectors have the same area.
James says x is 2cm.
Is he correct?

No





x = 9.798 cm