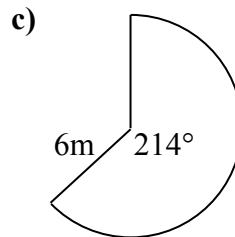
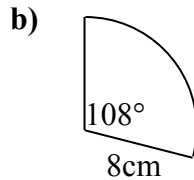
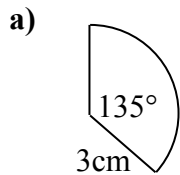


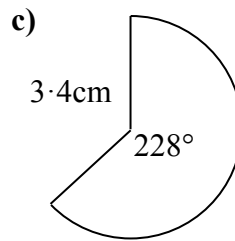
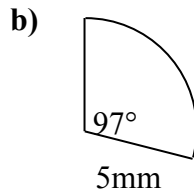
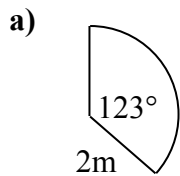
**ARCS AND SECTORS**

**CALCULATOR**

1) Calculate the length of the arcs of these sectors.



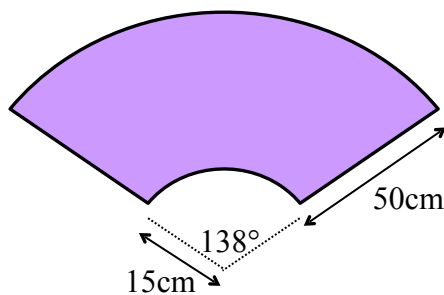
2) Calculate the area of these sectors.



3) A sector has a radius of 12cm and an arc length of 40cm. What is the angle of the sector?

4) A sector has an area of  $235\text{cm}^2$  and an angle of  $38^\circ$ . What is the radius of the sector?

5) A wiper blade clears away an area of the windscreen of a car as shown below.



What is the area cleared by the wiper blade?