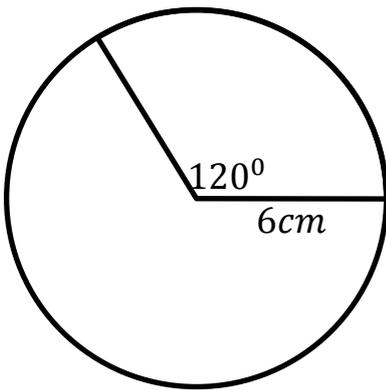


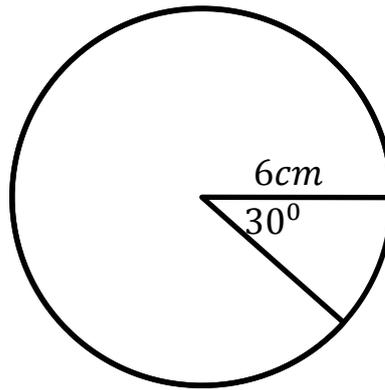
Arcs and Sectors

1. Find the length of each of the minor arcs below

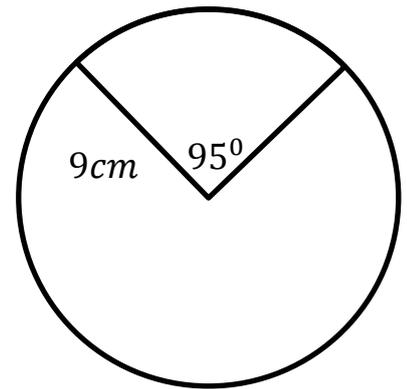
a.



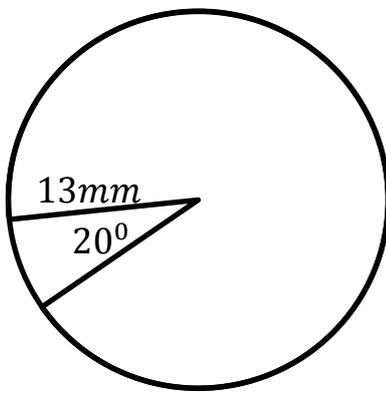
b.



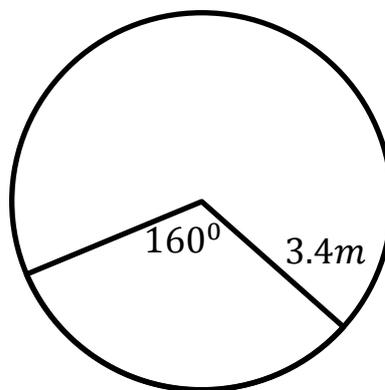
c.



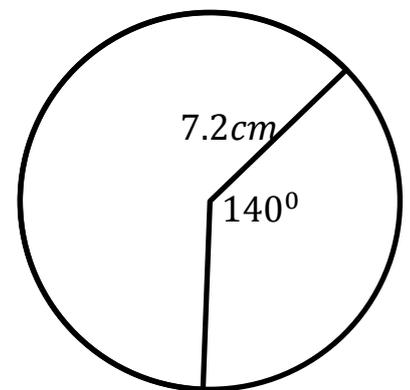
d.



e.



f.



2. Find the length of the major arc for all circles in question 1.

3. Find the area of the minor sector for all circles in question 1.

4. Find the area of the major sector for all the circles in question 1.

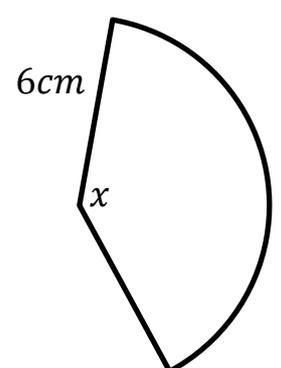
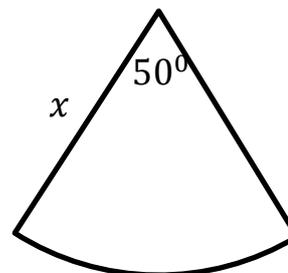
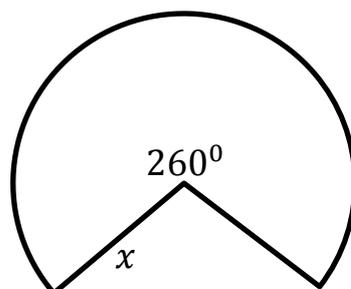
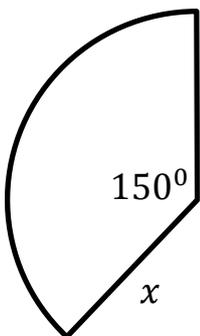
5. Find the value of x in each of the following

a. Arc Length = 40 cm

b. Area = 111 cm^2

c. Area = 130 cm^2

d. Perimeter = 28 cm



6. Find the area of a sector with a radius of 7 cm and an arc length of 20 cm .