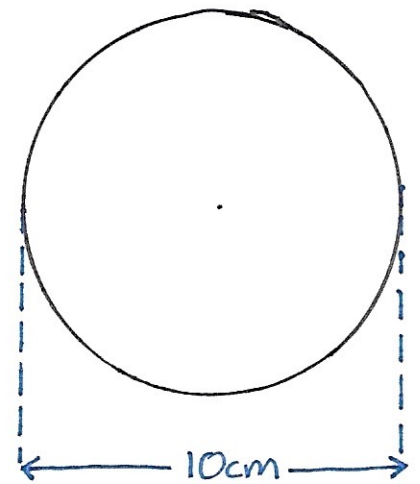


Circles Questions

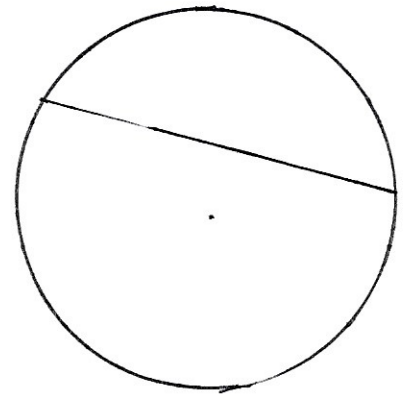
1) For the circle to the right what is the;

- (i) radius?
- (ii) diameter?
- (iii) circumference?
- (iv) area?



2) On the diagram to the right

- i) Label the minor segment, major segment, chord, minor arc and major arc.
- ii) Draw a tangent
- iii) Draw a segment and a sector.

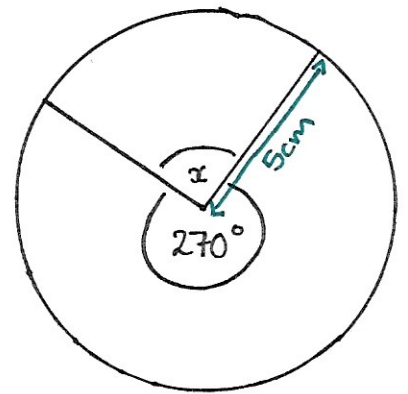


3) i) What is the value of x ?

ii) What is the length of the major arc?

iii) What is the area of the minor sector?

iv) Assuming the circle is centred at $(0,0)$, what is the equation of the circle?



4) The equation of a circle is $x^2 + y^2 = 36$.

i) What is the radius of the circle?

ii) Which of the following are on the circumference?

$(0,0)$, $(5,2)$, $(6,0)$, $(5,\sqrt{11})$, $(6,6)$ and $(0,6)$.

iii) What is the equation of a tangent at $(4, -\sqrt{20})$?