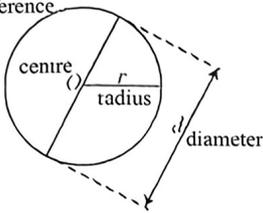
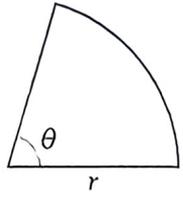
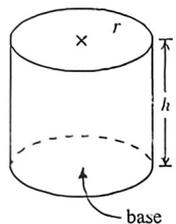


# CCK F2 Ch11 Areas and Volumes II revision

## S2 Maths 2<sup>nd</sup> term Core HW 3 Ch 11 (Revision)

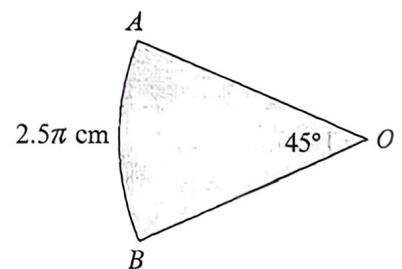
Name: \_\_\_\_\_ ( ) Class: 2 \_\_\_\_\_ Date: \_\_\_\_\_

1. The table below are the formulas related to volumes and areas. Complete the table.

<p><b>Circle</b></p> <p>Circumference</p> 	<p>Circumference</p> <p>= _____</p> <p>= _____</p>	<p>Area</p> <p>= _____</p>
<p><b>Sector</b></p> 	<p>Arc length</p> <p>= _____</p> <p>Perimeter</p> <p>= _____</p>	<p>Area</p> <p>= _____</p>
<p><b>Right Circular Cylinder</b></p> 	<p>Curved surface area</p> <p>= _____</p> <p>Total surface area</p> <p>= _____</p>	<p>Volume</p> <p>= _____</p>

2. In the figure,  $AOB$  is a sector with centre  $O$ . It is given that  $\widehat{AB} = 2.5\pi$  cm and  $\angle AOB = 45^\circ$ . [Q8]

(a) Find the length  $AO$ .



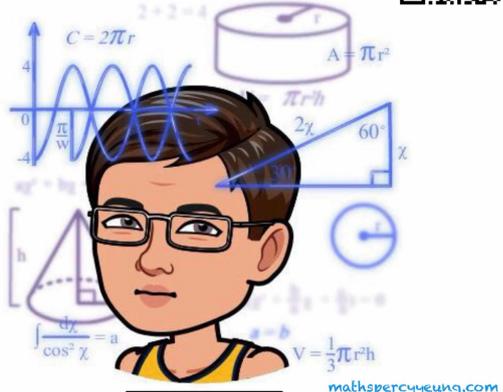
(b) Find the area of the sector.



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$C = 2\pi r$

$A = \pi r^2$

$\pi r h$

$2\chi$

$60^\circ$

$\chi$

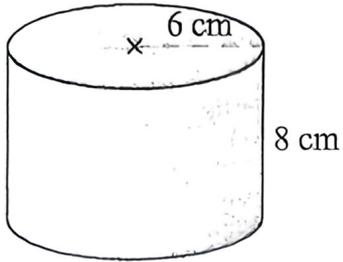
$\frac{dx}{\cos^2 \chi} = a$

$V = \frac{1}{3}\pi r^2 h$

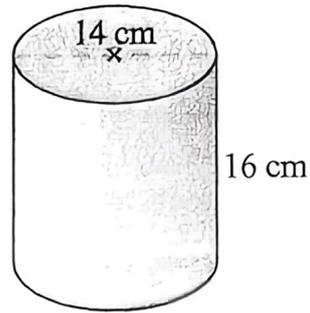
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3. Find the volumes, the curved surface areas and the total surface areas of the following right circular cylinders. (Give your answers in terms of  $\pi$ ) [Q11]

(a)



(b)



volume = \_\_\_\_\_  
= \_\_\_\_\_

volume = \_\_\_\_\_  
= \_\_\_\_\_

curved area = \_\_\_\_\_  
= \_\_\_\_\_

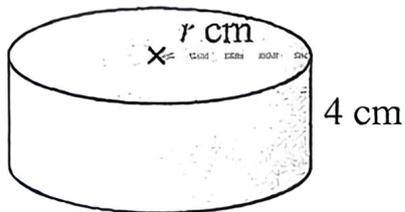
curved area = \_\_\_\_\_  
= \_\_\_\_\_

total surface area = \_\_\_\_\_  
= \_\_\_\_\_

total surface area = \_\_\_\_\_  
= \_\_\_\_\_

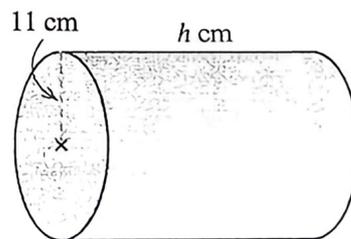
4. Find the unknown in each of the following right circular cylinders. [Q12]

(a)



volume =  $169\pi \text{ cm}^3$

(b)



total surface area =  $660\pi \text{ cm}^2$