

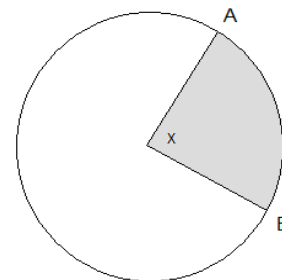
Name:

QUIZ 23 – MATH IB HL

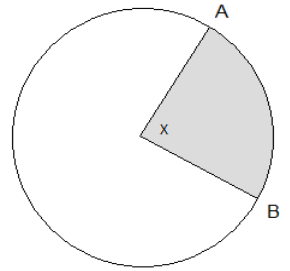
1. (18%) Complete the table **with exact simplified results**:

α (Deg)	α (Rad)
-120	
225	
330	
-40	
	$\frac{7\pi}{12}$
	2.3 (Answer should be given as an expression)

2. (17%) Given that the radius of the circle is 4 m and the minor arc AB is 1 m, find the angle x in radians and degrees, **round the angle in degrees to the nearest degree**. Diagram not to scale.

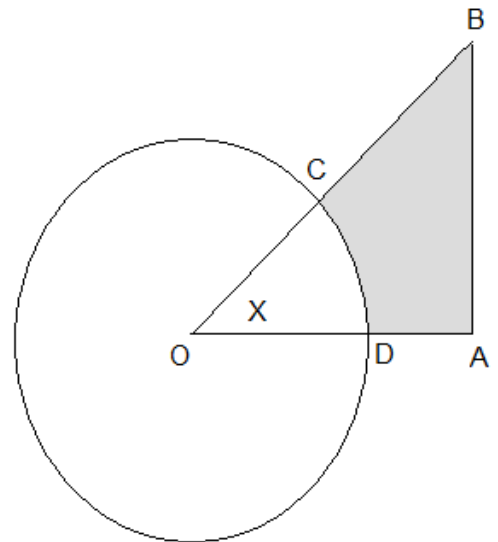


3. (30%) Given that the length of the Arc AB is 1 cm and that area shaded is 1 cm^2 . Find the angle x in radians and the radius of the circle.



4. (35%) Given that the angle x is $\frac{\pi}{6}$ radians. The radius of the circle is 10 cm and point C is the centre of the segment OB. Diagram not to scale. Find (exact answers only):

- a. (20%) The area shaded



- b. (15%) The perimeter of the area shaded