Name:

QUIZ – MATH GRADE 10

1. (21%) Complete the table **with exact simplified results**:
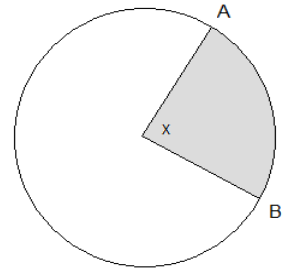
α (Deg)	α (Rad)
−135	
150	
315	
100	
	$\dfrac{5\pi}{6}$
	$-\dfrac{3\pi}{5}$
	1.2 (Answer should be given as an expression)

2. (10%) Given that the radius of the circle is 4 m and the minor arc AB is 6 m, find the angle x in radians and degrees. Diagram not to scale.
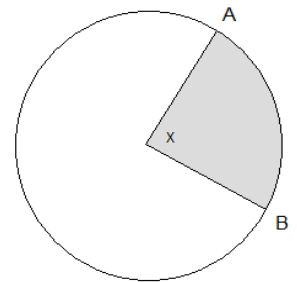
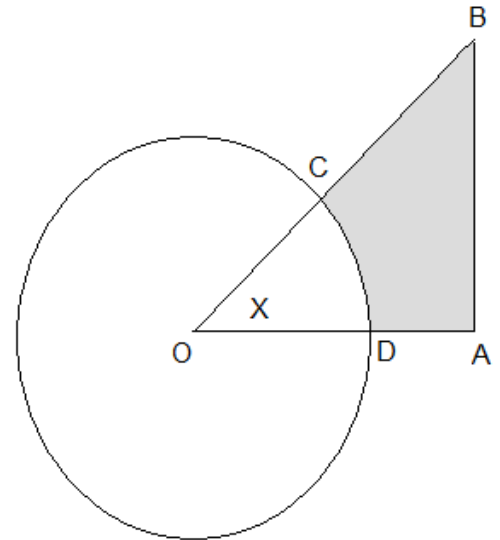3. (20%) Given that the radius of the circle is 3 cm and that area shaded is 12 cm^2. find:

   a. (12%) The angle x

   b. (8%) The perimeter of the shaded area.

4. (40%) Given that the angle x is $\frac{\pi}{4}$ radians. The radius of the circle is 4 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. (20%) The perimeter of the area shaded