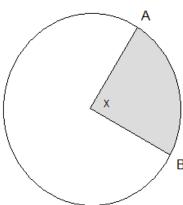
N	ame	
IN	anne	

**QUIZ - MATH GRADE 11** 

1. (10%) (Complete the table with exact simplified results:

10%) (Complete the table wit	
α (Deg)	α (Rad)
45	
-135	
150	
270	
-2	
	$\pi$
	$\frac{\pi}{10}$
	$4\pi$
	$-{5}$
	$\frac{5\pi}{8}$
	K
	(Answer should be given as an expression)
	0.2
	(Answer should be given as an expression)

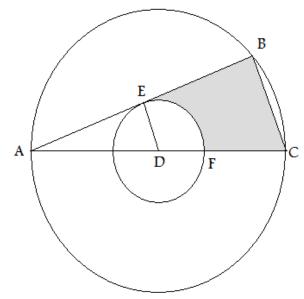
2. (20%) Given that the radius of the circle is 5 m and the area of the shaded sector is 25 m<sup>2</sup>, Find the <u>angle</u> x in <u>radians and degrees</u> and the length of the <u>major</u> are AB. Round to the nearest degree. Diagram not to scale.



3.	(35%) Given the following diagram in which there are 2 concentric circles. D is
	the center of the circles. $EAD = 30^{\circ}$ . AB is tangent to the smaller circle. $DC = 8$
	cm. <u>Diagram not to scale.</u>

Find (give exact answers):

a. (7%) The area of triangle ABC.



b. (7%) The area of the triangle AED.

c. (7%) The area of the sector EDF.

d. (7%) The area shaded

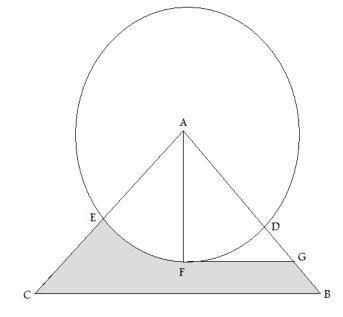
e. (7%) The <u>perimeter</u> of the area shaded.

4.	(35%) Given the following diagram in which triangle ACB is isosceles and right
	angled. FG is parallel to CB. AFG = 90°. The radius of the circle is 6 cm.
	DG = GB. Diagram not to scale.

Find (give exact answers):

a. (7%) The area of triangle AFG.

b. (7%) The area of the triangle ACB.



c. (7%) The area of the sector AEF.

d. (7%) The area shaded

e. (7%) The <u>perimeter</u> of the area shaded.