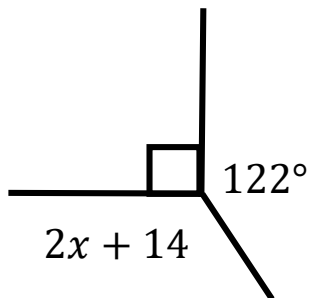
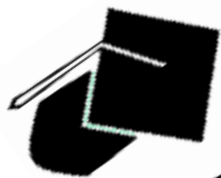


1. Calculate  $x$ .



$x = \dots\dots\dots$   
(2 marks)

2. Calculate

You must

show your answer

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account



(3 marks)

3. The diagram shows the locations of two ships

Ship C is on a bearing of  $075^\circ$  from ship A

Ship C is on a bearing of  $270^\circ$  from ship B



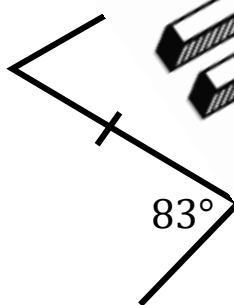
(2 marks)

4. Here are two regular polygons.



$x = \dots\dots\dots$   
(2 marks)

5. Calculate

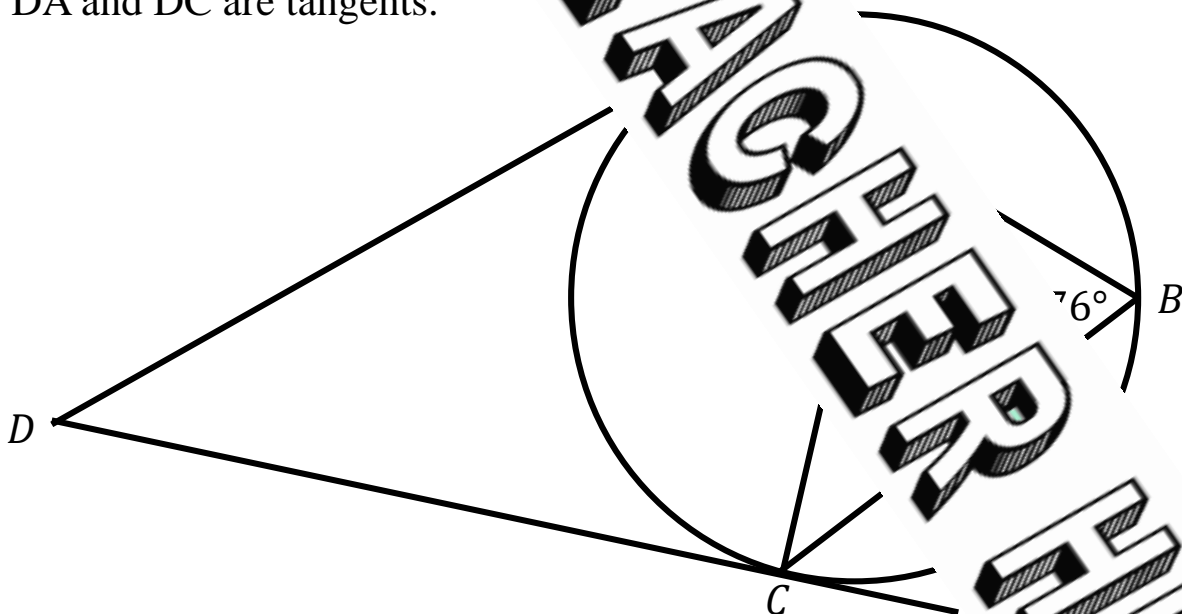


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account

162°

$x = \dots\dots\dots$   
(2 marks)

6. Points  $A$ ,  $B$ , and  $C$  are points on a circle with center  $O$ .  
 $DA$  and  $DC$  are tangents.



- (a) Calculate the size of angle  $AOC$ .
- (b) Calculate the size of angle  $CDA$ .

Score =