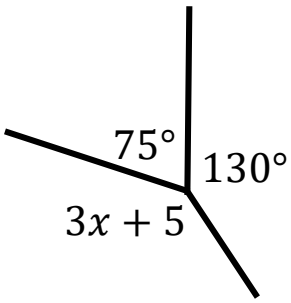
Higher Homework 45 : Angles

1. Calculate x.

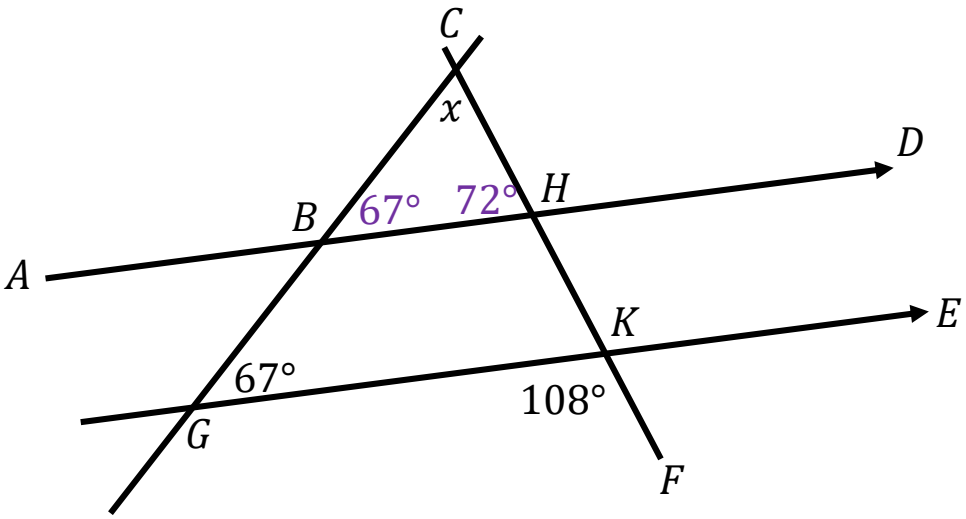


$x =$ 50°

(2 marks)

2. Calculate x.

You must give reasons for your answer.



$CBH = 67°$ *because corresponding angle are equal*

$FKG = 72°$ *because angles on a line add upto* $180°$

$x = 41°$ *because angles in a triangleadd upto* $180°$

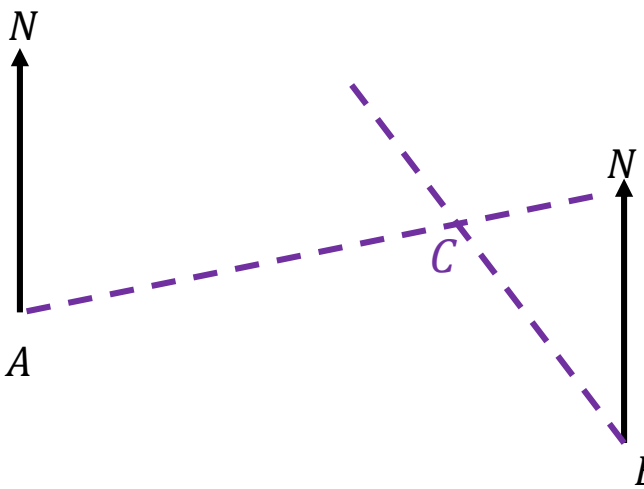
$x = 41°$

(3 marks)

3. The diagram show the locations of two planes in the sky.

Plane C is on a bearing of 080°from plane A

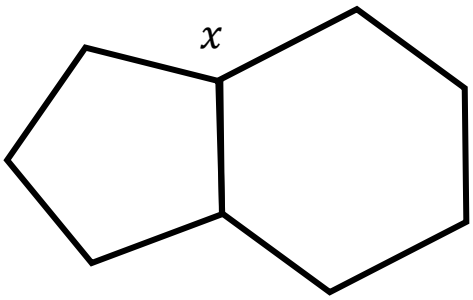
Plane C is on a bearing of 320°from plane B



(2 marks)

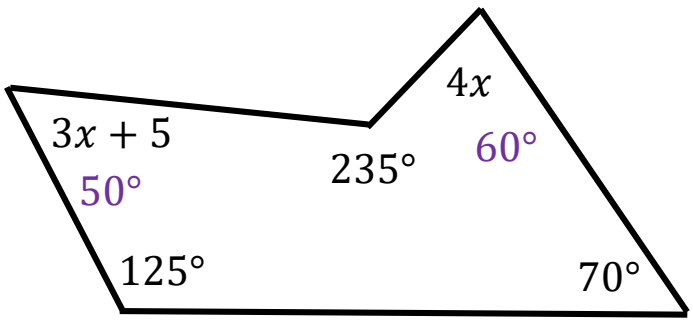
4. Here is are two regular polygons.

Calculate x.



$x =$ 132° (2 marks)

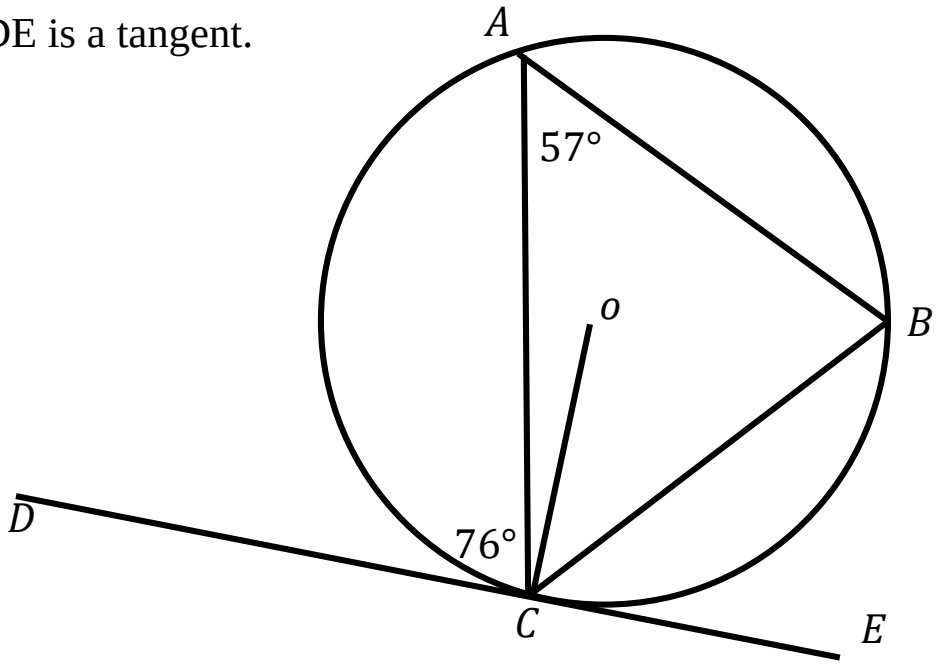
5. Calculate x.



$x =$ 15° (2 marks)

6. Points A, B, C and D are points on the edge of a circle center O.

DE is a tangent.



(a) Calculate the size of angle ECB. 57°

(b) Calculate the size of angle OCB. 33°

(3 marks)

Score =