1. Calculate *x*.

122°

2*x* + 14

x = ...67°.........

(2 marks)

2. Calculate *AFH*.

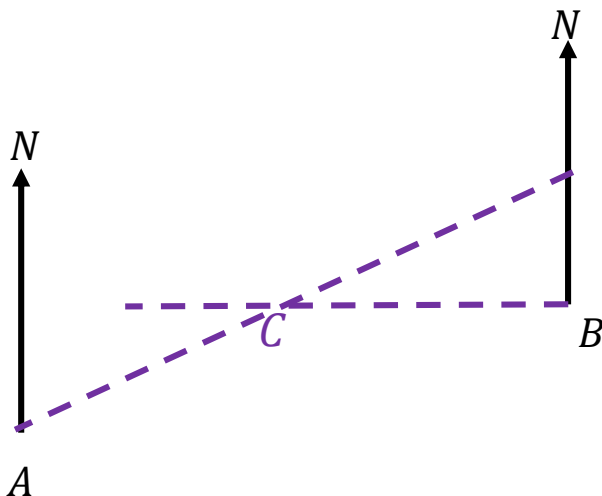You must give reasons for your answer

A

H

F

B

E

126°

G

C

D
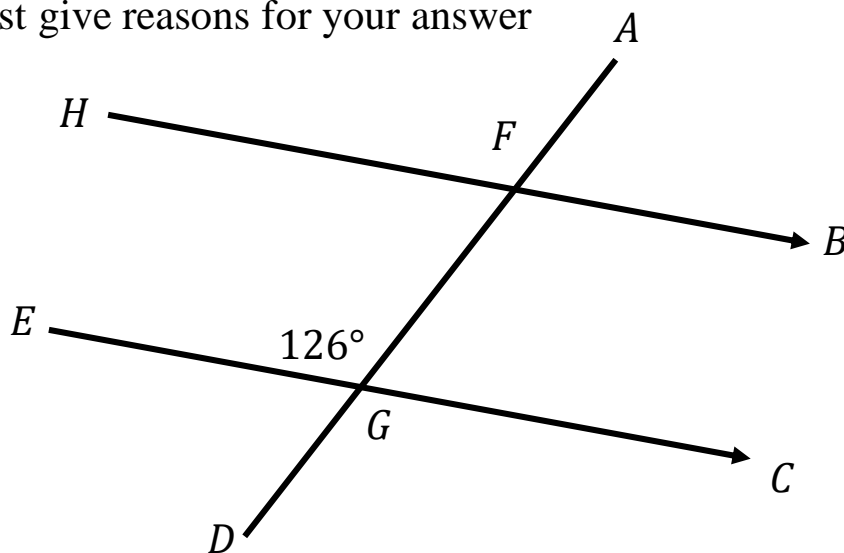
A = 126° because corresponding angles are equal

(3 marks)

3. The diagram show the locations of two ships.
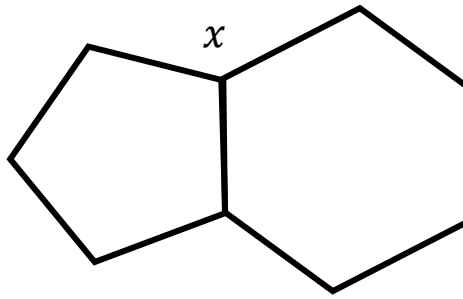
Ship C is on a bearing of 075°from ship A
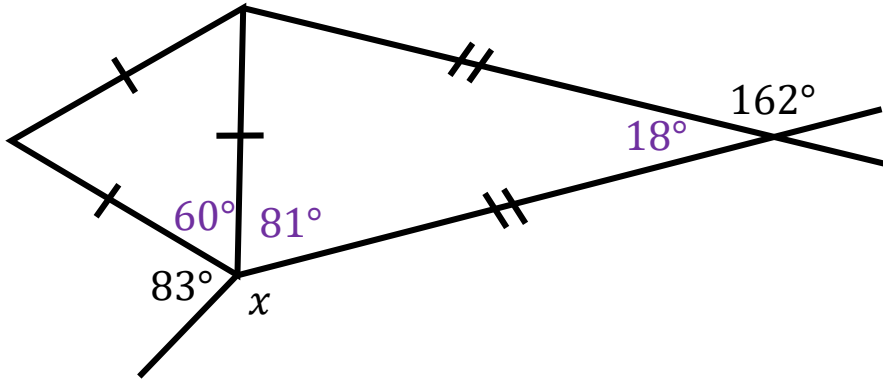Ship C is on a bearing of 270°from ship B

N

N

C

B

A

(2 marks)

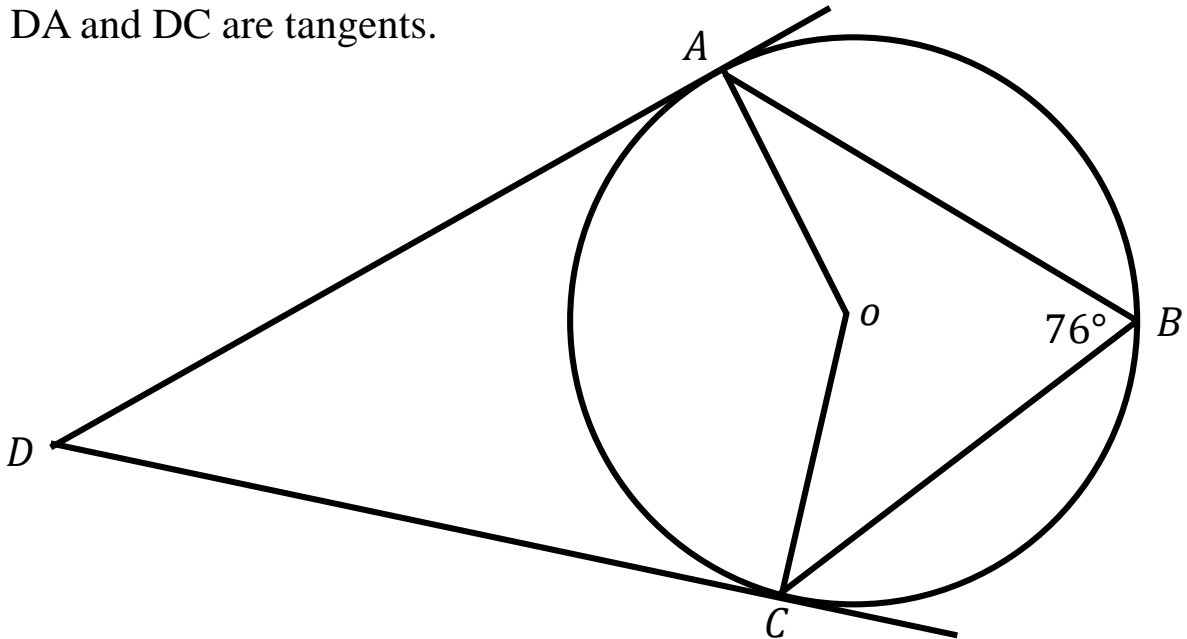4. Here is are two regular polygons.

Calculate x.

x

x = ...$132°$......

(2 marks)

5. Calculate x.

$162°$

$18°$

$60°$ $81°$

$83°$ x

x = ...$136°$......

(2 marks)

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

DA and DC are tangents.

A

o

$76°$ B

D

C

(a) Calculate the size of angle AOC.

......$152°$......

(b) Calculate the size of angle CDA.

......$28°$......

(3 marks)

Score =