1 The diagram shows four congruent right-angled triangles *ABJ*, *BCI*, *CDH* and *DEG*.
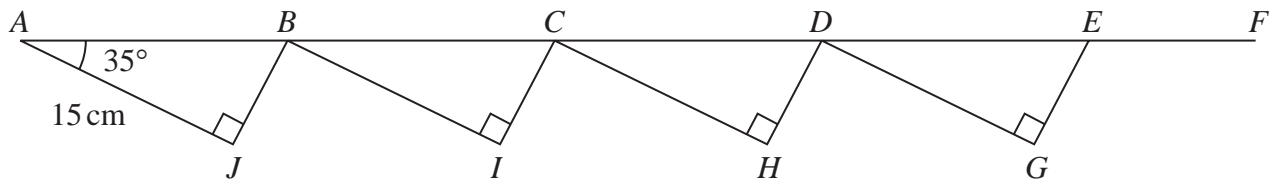   The diagram also shows the straight line *ABCDEF*.

Diagram **NOT** accurately drawn

$AJ = 15$ cm
Angle $BAJ = 35°$

$AF = 80$ cm

Work out the length of *EF*.
Give your answer correct to 3 significant figures.

.... cm

(Total for Question 1 is 5 marks)

2 The diagram shows two congruent isosceles triangles and parts of two congruent regular polygons, **X** and **Y**.
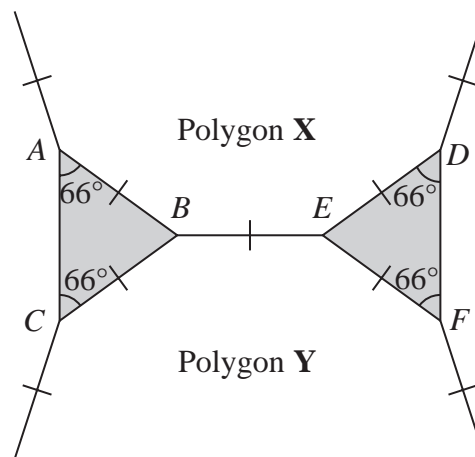
Polygon **X**

Diagram **NOT** accurately drawn

A

$66°$

B

E

D

$66°$

$66°$

C

$66°$

F

Polygon **Y**

The two regular polygons each have *n* sides.

Work out the value of *n*.

n = ...

(Total for Question 2 is 3 marks)