

Diagram **NOT**
accurately drawn

The diagram shows a regular hexagon and a regular octagon.

Calculate the size of the angle marked x .

You must show all your working.

12.



Diagram **NOT**
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Work out the size of an exterior angle of a regular pentagon.

.....

(Total 2 marks)

11.



Diagram **NOT**
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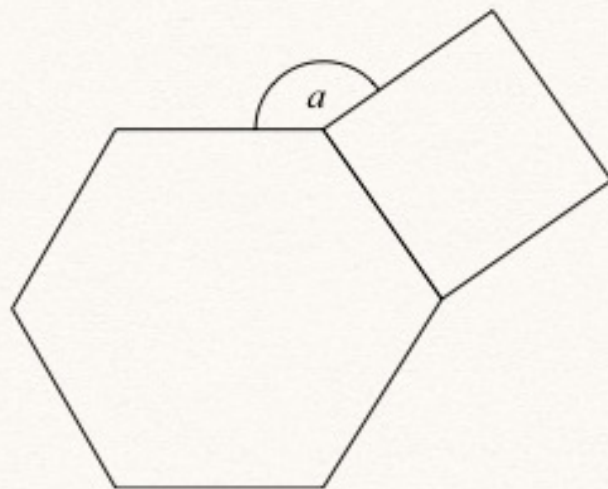
The diagram shows part of a **regular** 10-sided polygon.

Work out the size of the angle marked x .

.....
(Total 3 ma

3.

Diagram **NOT**
accurately drawn



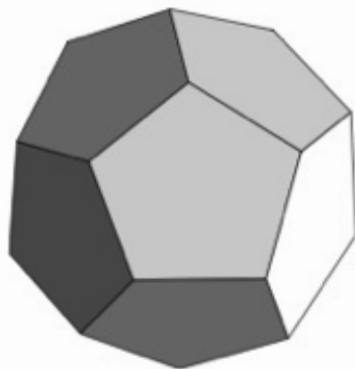
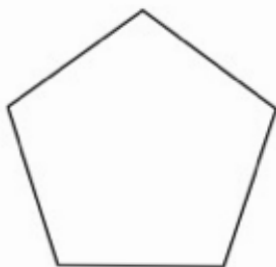
The diagram shows a regular hexagon and a square.

Calculate the size of the angle a .

18 Here is a regular dodecahedron.

A dodecahedron is a solid with 12 faces.

Each face is a regular pentagon.



Calculate the total surface area of a regular dodecahedron with edges of length 10 cm.