

DO NOT WRITE IN THIS AREA

10 $\mathbf{M} = \begin{pmatrix} 2 & x \\ -0.5 & -1.5 \end{pmatrix}$

Given that the determinant of matrix \mathbf{M} is 0.5

find the value of x .

$$x = \dots$$

(Total for Question 10 is 2 marks)

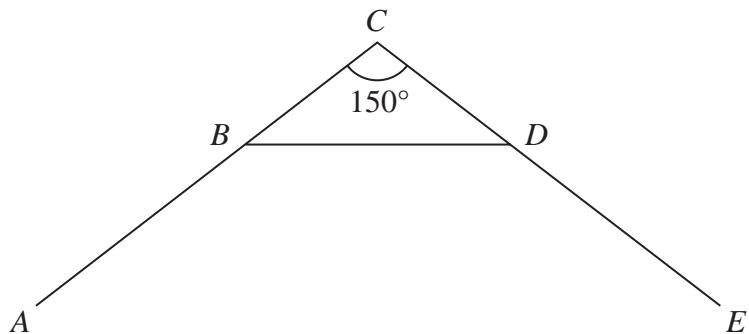
11

Diagram NOT
accurately drawn

In the diagram, AB , BD and DE are three sides of a regular polygon with n sides.

The point C is such that ABC and EDC are straight lines and $\angle BCD = 150^\circ$

Calculate the value of n .

$$n = \dots$$

(Total for Question 11 is 3 marks)



P 6 8 8 1 7 A 0 7 2 8