6
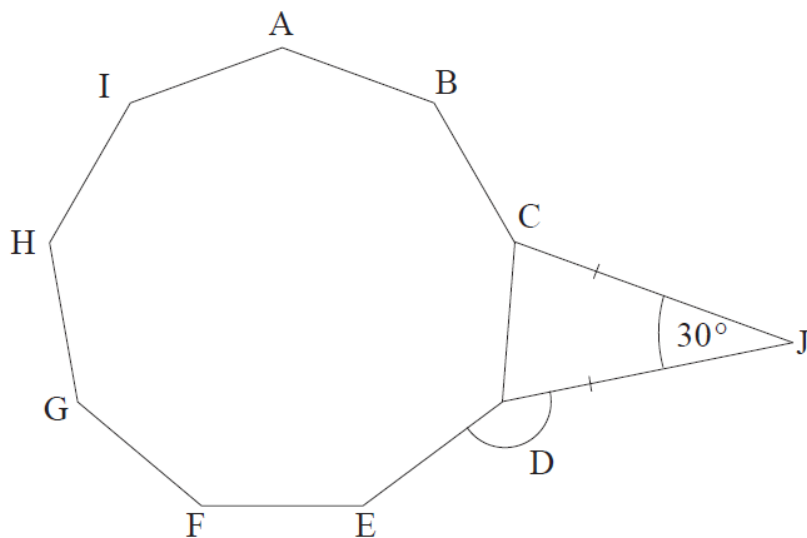

diagram not
drawn accurately
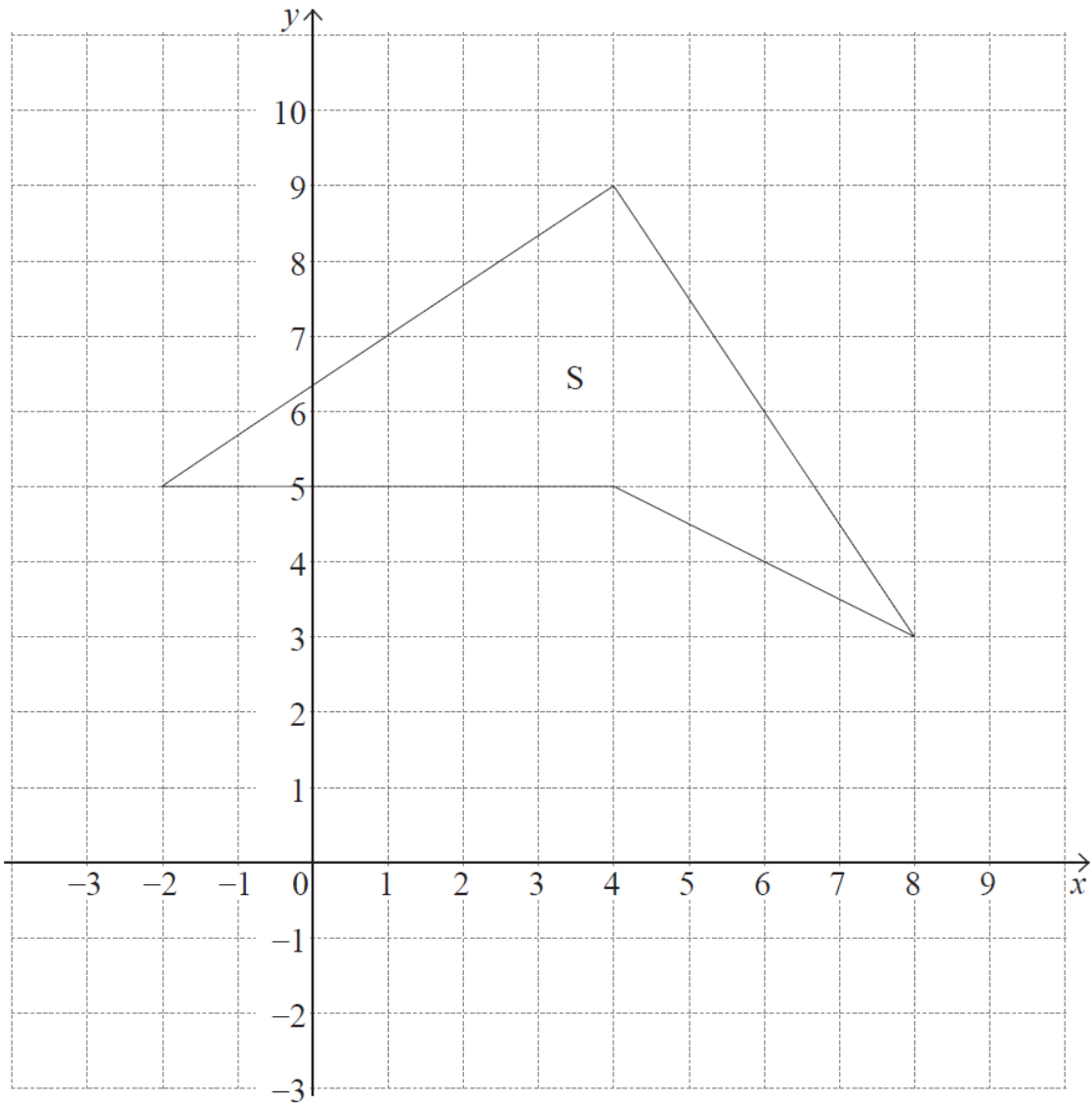
The diagram shows a regular nonagon ABCDEFGHI with an isosceles triangle DCJ attached.

The angle DJC = 30°

Calculate the size of the angle EDJ.

Show your working clearly.

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(a) On the grid above, draw an enlargement of the shape S, using a scale factor of $\frac{1}{2}$ and centre $(0, -1)$.

[3]

(b) If the shape S has an area of $20\,\text{cm}^2$, what is the area of the enlarged shape?

Answer _____ cm^2 [1]