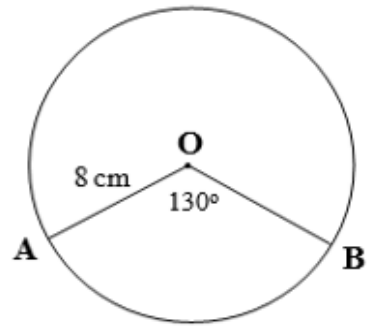


National 5 Homework

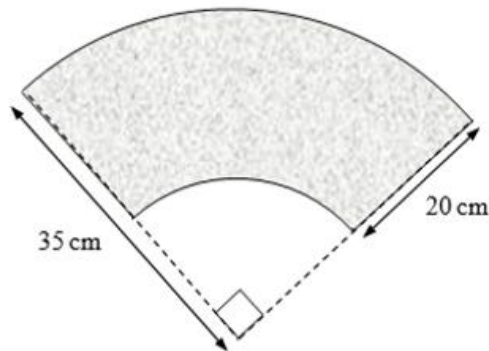
Give your answers correct to 3 significant figures where necessary.

1. (a) Find the length of the minor arc AB in this circle.

- (b) Calculate the area of the minor sector AOB.



2. Ornamental paving slabs are in the shape of part of a sector of a circle. Calculate the area of the slab shown.



3. A line passes through the points A(-2, -4) and B(8, 1).

Find the gradient of the line AB.

4. Write each of the following quadratic expressions in the form $a(x+b)^2 + c$:

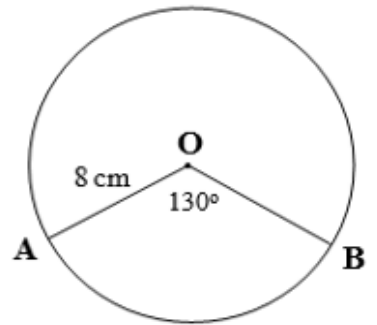
(a) $x^2 + 6x - 3$

(b) $x^2 - 5x + 1$

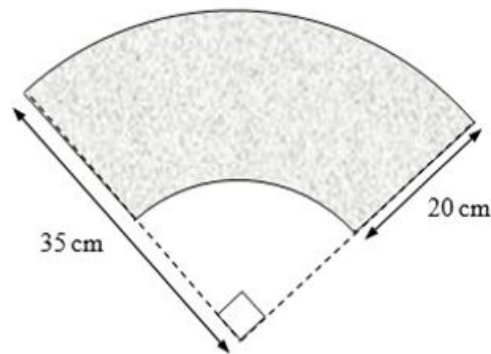
Give your answers correct to 3 significant figures where necessary.

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