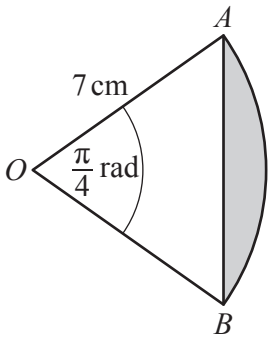
6 **(a)** A circle has a radius of 6 cm. A sector of this circle has a perimeter of $2(6+5\pi)$ cm. Find the area of this sector. [4]

(b)



The diagram shows the sector AOB of a circle with centre O and radius 7 cm.
Angle $AOB = \frac{\pi}{4}$ radians. Find the perimeter of the shaded region. [3]

© UCLES 2020