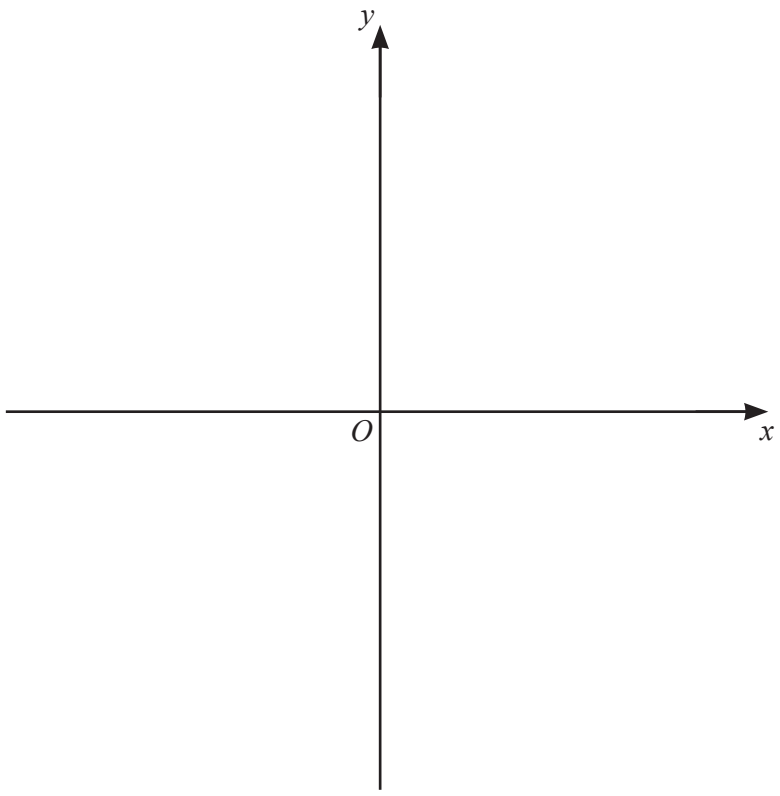
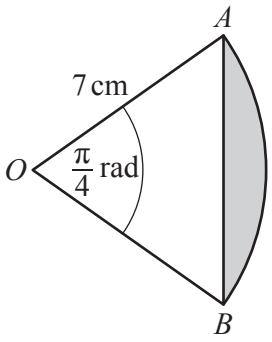
5 **(a)** On the axes below, sketch the graph of $y = |5x - 7|$, showing the coordinates of the points where the graph meets the coordinate axes. [3]



(b) Solve $5|5x - 7| - 1 = 14$. [3]

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]

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