

$$(a) \quad (i) \quad \left( \frac{1}{2} \hat{A} \hat{O} \hat{B} = \right) \arccos \left( \frac{4}{4.5} \right) = 27.266... \quad (M1)(A1)$$

$$\hat{A} \hat{O} \hat{B} = 54.532... \approx 54.5^\circ \quad (0.951764... \approx 0.952 \text{ radians}) \quad A1$$

**Note:** Other methods may be seen; award **(M1)(A1)** for use of a correct trigonometric method to find an appropriate angle and then **A1** for the correct answer.

(ii) a finding area of triangle  
**EITHER**

$$\text{area of triangle} = \frac{1}{2} \times 4.5^2 \times \sin(54.532...) \quad (M1)$$

**Note:** Award **M1** for correct substitution into formula.

$$= 8.24621... \approx 8.25 \text{ m}^2 \quad (A1)$$

**OR**

$$AB = 2 \times \sqrt{4.5^2 - 4^2} = 4.1231... \quad (M1)$$

$$\begin{aligned} \text{area triangle} &= \frac{4.1231... \times 4}{2} \\ &= 8.24621... \approx 8.25 \text{ (m}^2\text{)} \end{aligned} \quad (A1)$$

finding area of sector  
**EITHER**

$$\text{area of sector} = \frac{54.532...}{360} \times \pi \times 4.5^2 \quad (M1)$$

$$= 9.63661... \approx 9.64 \text{ m}^2 \quad (A1)$$

**OR**

$$\text{area of sector} = \frac{1}{2} \times 0.9517641... \times 4.5^2 \quad (M1)$$

$$= 9.63661... \approx 9.64 \text{ m}^2 \quad (A1)$$

**THEN**

$$\begin{aligned} \text{area of segment} &= 9.63661... - 8.24621... \\ &= 1.39 \text{ m}^2 \quad (1.39040...) \end{aligned}$$

**A1**

[8 marks]

# Ib Math HL Past Papers 2012

**Paul Fannon, Vesna Kadelburg, Ben  
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