3.
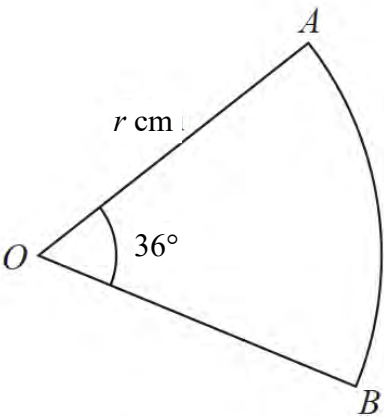

Figure 1

Figure 1 shows a sector AOB of a circle with centre O, radius $r = 7$ cm and angle $AOB = 36°$.

The attempt of a student to find the area of the sector is shown below.

$$\text{Area of sector} = \frac{1}{2}r^2\theta$$

$$= \frac{1}{2} \times 7^2 \times 36$$

$$= 882 \text{ cm}^2$$

(*a*) Explain the error made by this student.

(1)

(*b*) Write out a correct solution.

(2)

(Total for Question 3 is 3 marks)