

12cm

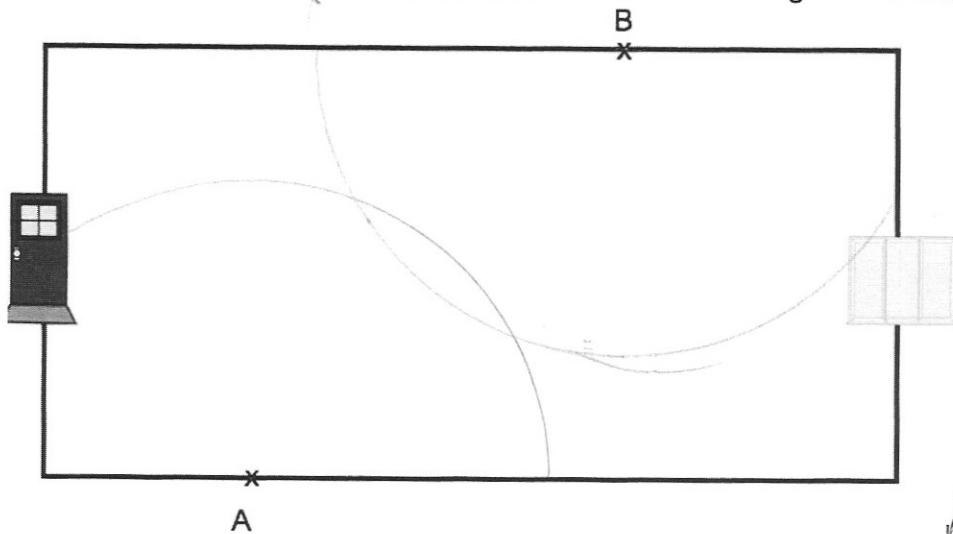
Calculate the area of this semi-circle.
Leave your answer in terms of π

$$\frac{1}{2} (\pi \times 6^2)$$

$$= 18\pi \text{ cm}^2$$

There are two burglar alarms, one at A and one at B. On the diagram, 1 cm = 1 m.
The range of each sensor is 4m.

Is it possible to walk from the door to the window without setting off the alarm?



No

Solve

$$\frac{7c + 4}{8} = 11$$

$$7c + 4 = 88$$

$$7c = 84$$

$$c = 12$$

Work out 15^{-2}

$$\frac{1}{15^2} = \frac{1}{225}$$