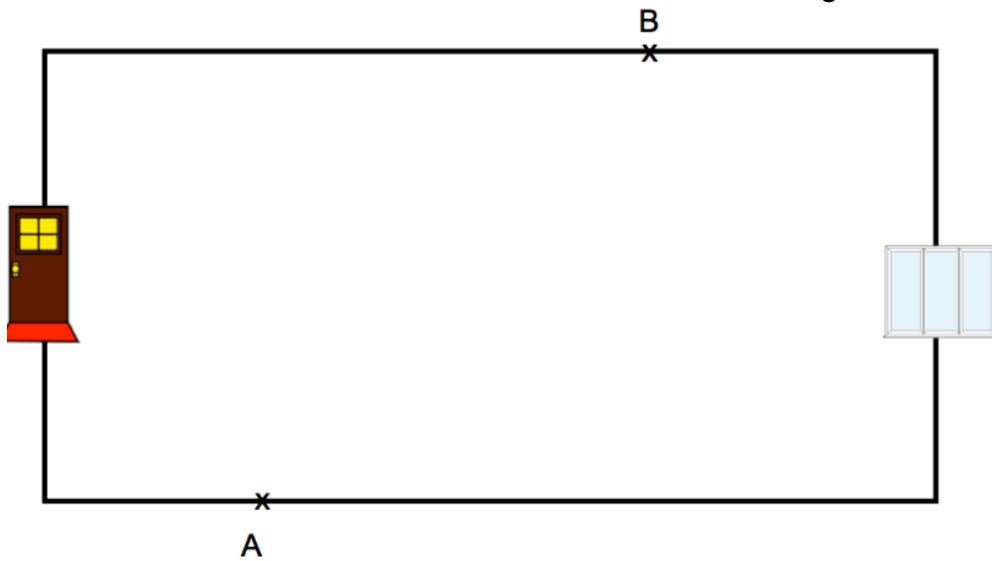


12cm

Calculate the area of this semi-circle.  
Leave your answer in terms of  $\pi$

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

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



Solve

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

Work out  $15^{-2}$