2 The diagram shows a light ray passing though a semicircular block of glass.
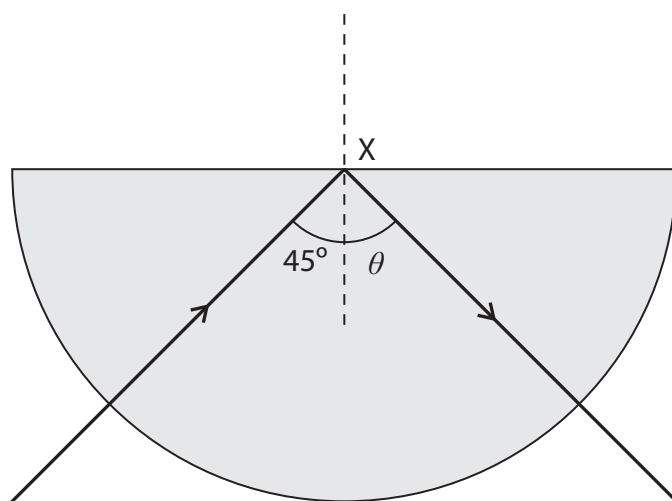

The dotted line is the normal to the surface at X.

When the light ray hits the surface as shown, **all** of it is reflected back inside.

(a) (i) Name the process shown in the diagram.

(2)

....

(ii) What is the angle labelled θ?

(1)

....
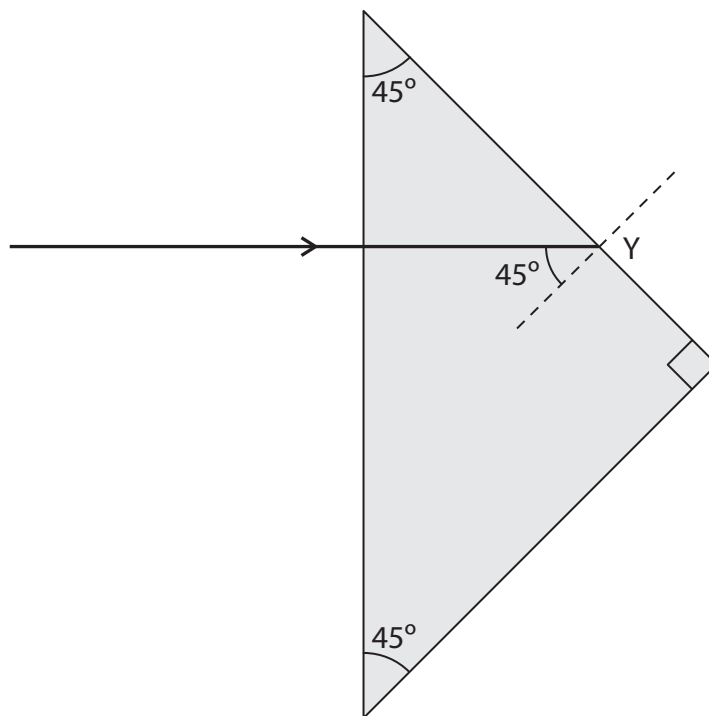
(b) The diagram shows another light ray entering a right-angled glass block.

It hits the inside surface at Y as shown.

Add to the diagram to complete the path of the ray.

(3)

(Total for Question 2 = 6 marks)