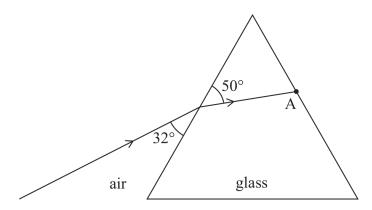
12 In an experiment to determine the refractive index of glass, a student directed a ray of light towards a glass prism.

The ray of light is shown before and after entering the prism.



(a) (i) Determine the refractive index of the glass.

(3)

Refractive index of glass =

(ii) Draw, on the diagram, the ray of light as it emerges from the prism at A.No further calculations are required.

(1)



(b) A different prism is made of glass with a refra	active index of 1.63
Calculate the speed of light in this glass.	
	(2)
	Speed of light in glass =
	(Total for Question 12 = 6 marks)