8	The point $A$ has coordinates $(2, 6)$ , the point $B$ has coordinates $(6, 8)$ and the point $C$ has coordinates $(4, 2)$ .	
	(a) Find the exact length of	
	(i) AB (ii) BC (iii) AC	(4)
	(b) Find the size of each angle of triangle ABC in degrees.	(3)
	The points $A$ , $B$ and $C$ lie on a circle with centre $P$ .	
	(c) Find the coordinates of <i>P</i> .	(2)
	(d) Find the exact length of the radius of the circle in the form $\sqrt{a}$ , where $a$ is an integer	(2)



DO NOT WRITE IN THIS AREA

Question 8 continued
(Total for Question 8 is 11 marks)

