10		
	(a) Show that $A = 2\pi r^2 + \frac{100}{r}$	(3)
	(b) Use calculus to find, to 4 significant figures, the value of <i>r</i> for which <i>A</i> is a minimum.	
	(c) Use calculus to verify that the value of r found in part (b) does give a minimum	(3)
	value of A .	(3)
	(d) Find, to the nearest whole number, the minimum value of <i>A</i> .	(2)

Question 10 continued				



Question 10 continued			
	(Total for Question 10 is 11 marks)		
TOTAL FOR PAPER IS 100 MARKS			