

- 2 Oil is leaking from a pipe and forms a circular pool on a horizontal surface. The area of the surface of the pool is increasing at a constant rate of $8 \text{ cm}^2/\text{s}$. Find, in cm/s to 3 significant figures, the rate at which the radius of the pool is increasing when the area of the pool is 50 cm^2

(6)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Question 2 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(Total for Question 2 is 6 marks)

P 5 8 3 7 3 A 0 5 3 2