



- (ii) Find the rate, in cm per minute, at which the radius of the oil slick is increasing when the radius is 50 m.

- (c) Show that the area of water covered by the oil slick is increasing at a constant rate of  $4 \times 10^7 \text{ cm}^2$  per minute.

- (d) The nearest land is 1 km from the point at which the oil-spill began. Find how long it will take for the oil slick to reach land. Give your answer correct to the nearest hour.

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