

8. [Maximum mark: 16]

Let $y = \frac{\ln x}{x^2}$ for $x > 0$.

(a) Show that $\frac{dy}{dx} = \frac{1-4\ln x}{x^3}$.

$$\frac{(2x)^1 x^1 - \ln(x^2) \cdot 2x^2}{(x^2)^2} = \frac{\frac{1}{x} x^1 - \ln(x^2) \cdot 2x^2}{x^4}$$

$$= \frac{x^3 - 2x^2 \ln x}{x^4} \quad [3] = \frac{x^2(1-4\ln x)}{x^4}$$

$$\boxed{\frac{1-4\ln x}{x^2}}$$

Consider the function defined by $f(x) = \frac{\ln x}{x^4}$ for $x > 0$ and its graph $y = f(x)$.

(b) The graph of f has a horizontal tangent at point P. Find the coordinates of P.

[5]



$$f'(x) = 0 \quad \frac{1-4\ln x}{x^3} = 0$$

$$1-4\ln x = 0$$

$$1 = 4\ln x$$

$$\frac{1}{4} = \ln x$$

$$x = e^{1/4}$$

$$x = \frac{e^{1/4}}{1/4} \cdot \frac{\ln e}{e} = \frac{1}{4e}$$

Coordinates $(e^{1/4}, f(e^{1/4}))$

$$\boxed{P \left(e^{1/4}, \frac{1}{4e} \right)}$$

$$f(e^{1/4}) = \frac{\ln e^{1/4}}{(e^{1/4})^4}$$

$$(e^{-3/4})^{1/4}$$

(c) Given that $f''(x) = \frac{20\ln x - 9}{x^5}$, show that P is a local maximum point.

[3]

$$f''(P) = -ve \text{ value}$$

$$= \frac{20 \ln e^{1/4} - 9}{(e^{1/4})^5}$$

$$\Rightarrow \frac{5 \cdot 20 \cdot \frac{1}{4} - 9}{e^{5/4}}$$

$$\frac{-4}{e^{5/4}}$$

ve #
local max

$\therefore P$ is a local maximum

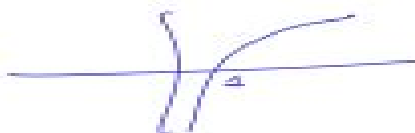
(d) Solve $f(x) > 0$ for $x > 0$.

[2]

$$\frac{\ln x}{x^4} > 0$$

$$\Rightarrow \ln x > 0$$

$$\boxed{x > 1}$$



(e) Sketch the graph of f , showing clearly the value of the x -intercept and the approximate position of point P.

[3]

$$\frac{\ln x}{x^4}$$



$$f(x) = \frac{\ln x}{x^4}$$

$$f(1) = \frac{\ln 1}{1^4} = 0$$

Ib Math Sl Paper 20markscheme

**Paul La Rondie, Jill Stevens, Natasha
Awada, Jennifer Chang Wathall, Ellen
Thompson, Laurie Buchanan, Ed Kemp**

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