

Question 1 (4 marks)

a. $\frac{d^2}{dx^2}(2x \log_e(x))$
 $= 2 \log_e(x) + 2x \times \frac{1}{x}$ (product rule)
 $= 2 \log_e(x) + 2$ (simplify)

(1 mark)

b. $f(x) = \frac{\tan(x)}{3x}$
 $f'(x) = \frac{3x \times \sec^2(x) - 3 \tan(x)}{9x^2}$ (quotient rule)

(1 mark)

$$f'\left(\frac{\pi}{3}\right) = \frac{3 \times \frac{\pi}{3} \times \sec^2\left(\frac{\pi}{3}\right) - 3 \tan\left(\frac{\pi}{3}\right)}{9 \times \frac{\pi^2}{9}}$$

$$= \frac{\pi \times 4 - 3 \times \sqrt{3}}{\pi^2}$$

$$= \frac{4\pi - 3\sqrt{3}}{\pi^2}$$

(1 mark)

$$\text{since } \sec^2\left(\frac{\pi}{3}\right) = \frac{1}{\cos^2\left(\frac{\pi}{3}\right)}$$

$$= 1 + \left(\frac{1}{2}\right)^2$$

$$= 4$$

(1 mark)

Question 2 (3 marks)

$$g'(x) = 3 - \frac{2}{x}, \quad x > 0$$

$$g(x) = \int \left(3 - \frac{2}{x}\right) dx$$

(1 mark)

$$= 3x - 2 \log_e(x) + c, \quad \text{since } x > 0$$

(1 mark)

$$\text{Since } g(1) = 2,$$

$$2 = 3 \times 1 - 2 \log_e(1) + c$$

$$c = 2 - 3$$

$$c = -1$$

$$\text{So } g(x) = 3x - 2 \log_e(x) - 1$$

(1 mark)

Notes For Hsc Maths Chapter Differentiation Of Target

L Darling-Hammond



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