Question 4 [2]

$y = 4x^2 - 2x^3$

$\frac{dy}{dx} = 8x - 6x^2$

Let $P(x_1, y_1)$ be the point of contact.

$\therefore$ Slope of the tangents $= 8x_1 - 6x_1^2$

Tangent equation: $y - y_1 = (8x_1 - 6x_1^2)(x - x_1)$

$\because$ the tangent passes through the origin

$y_1 = (8x_1 - 6x_1^2)x_1$

Now, $y_1 = 4x_1^2 - 2x_1^3 = 8x_1^2 - 6x_1^3$

$\Rightarrow 4 - 2x_1 = 8 - 6x_1$

$\Rightarrow 4x_1 = 4$

$x_1 = 1 \Rightarrow y_1 = 2$

The point on the curve is (1,2)

Question 5 [2]

(i) $\int \frac{2x^3 - 1}{x^4 + x} dx$

Dividing both nominator and denominator by 'x' we get

$= \int \frac{2x - \frac{1}{x^2}}{x^2 + \frac{1}{x}} dx$ Let $x^2 + \frac{1}{x} = t \Rightarrow \left(2x - \frac{1}{x^2}\right) dx = dt$

$= \int \frac{dt}{t}$

$= \log_e |t| + c$

$= \log_e \left|x^2 + \frac{1}{x}\right| + c$

OR

(ii) $\int e^x \operatorname{cosec} x (1 - \cot x) dx$

$= \int e^x (\operatorname{cosec} x - \operatorname{cosec} x . \cot x) dx$

$= \int e^x (\operatorname{cosec} x + (-\operatorname{cosec} x . \cot x)) dx$

$[\because \int e^x (f(x) + f'(x)) dx = e^x f(x) + c]$

$= e^x \operatorname{cosec} x + c$

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David Hanson

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