



Suggested answers to 2015 O level Additional Mathematics (A Maths/ Add Maths) 4047 Paper 2 Part 1/3

Subject :	Date :
1. $y = f(x), f'(x) = 2e^x + e^{-2x}$	
(i) Stationary point, $f'(x) = 0$	
$2e^x + e^{-2x} = 0$	
Let $e^x = a$	
$2a + a^{-2} = 0$	
$2a + \frac{1}{a^2} = 0$	
$2a^3 + 1 = 0$	
$2a^3 = -1$	
$a^3 = -\frac{1}{2}$	
$\therefore a^3 = -0.5$	
$\therefore e^x = -0.7937$	
$x = \ln(-0.7937) = \text{undefined}$	
$\therefore f(x)$ has no stationary points	
(ii) $\int f'(x) dx = \int 2e^x + e^{-2x} dx$	$\frac{d}{dx} e^{-2x} = -2e^{-2x}$
$= 2 \int e^x dx + \int e^{-2x} dx$	
$= 2e^x + C_1 + (-\frac{1}{2}) \int 2e^{-2x} dx$	
$= 2e^x + C_1 - \frac{1}{2} (e^{-2x}) + C_2$	
$= 2e^x - \frac{1}{2} e^{-2x} + C_2$	
$(0, 2):$	
$2 - \frac{1}{2} + C = 2$	
$-\frac{1}{2} + C = 0$	
$C = \frac{1}{2}$	
$\therefore y = f(x) = 2e^x - \frac{1}{2} e^{-2x} + \frac{1}{2}$	
2i. $\frac{d}{dx} [\ln(\cos x)] = \frac{-\sin x}{\cos x}$	
$= -\tan x$ (shown).	
2. $\frac{d}{dx} (x \tan x) = \tan x + x \sec^2 x$	

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Camilla Rothe



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