

Core 4 Calculus Questions

- 2 A curve is defined by the parametric equations

$$x = 3 - 4t \quad y = 1 + \frac{t}{t}$$

- (a) Find $\frac{dy}{dx}$ in terms of t . (4 marks)
- (b) Find the equation of the tangent to the curve at the point where $t = 2$, giving your answer in the form $ax + by + c = 0$, where a , b and c are integers. (4 marks)
- (c) Verify that the cartesian equation of the curve can be written as

$$(x - 3)(y - 1) + 8 = 0 \quad \text{(3 marks)}$$

- 6 (a) Express $\cos 2x$ in the form $a \cos^2 x + b$, where a and b are constants. (2 marks)
- (b) Hence show that $\int_0^{\frac{\pi}{2}} \cos^2 x \, dx = \frac{\pi}{a}$, where a is an integer. (3 marks)
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- 8 (a) Solve the differential equation

$$\frac{dx}{dt} = -2(x - 6)^{\frac{1}{2}}$$

to find t in terms of x , given that $x = 70$ when $t = 0$. (6 marks)

- (b) Liquid fuel is stored in a tank. At time t minutes, the depth of fuel in the tank is x cm. Initially there is a depth of 70 cm of fuel in the tank. There is a tap 6 cm above the bottom of the tank. The flow of fuel out of the tank is modelled by the differential equation

$$\frac{dx}{dt} = -2(x - 6)^{\frac{1}{2}}$$

- (i) Explain what happens when $x = 6$. (1 mark)
- (ii) Find how long it will take for the depth of fuel to fall from 70 cm to 22 cm. (2 marks)
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**London univ, exam. papers, Charles
Josiah Woodward**

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