

- 1 Use logarithms to solve the equation $e^x = 3^{x-2}$, giving your answer correct to 3 decimal places. [3]

- 2 (i) Use the trapezium rule with 3 intervals to estimate the value of

$$\int_{\frac{1}{2}\pi}^{\frac{3}{2}\pi} \operatorname{cosec} x \, dx,$$

giving your answer correct to 2 decimal places. [3]

- (ii) Using a sketch of the graph of $y = \operatorname{cosec} x$, explain whether the trapezium rule gives an overestimate or an underestimate of the true value of the integral in part (i). [2]

- 3 The polynomial $ax^3 + bx^2 + x + 3$, where a and b are constants, is denoted by $p(x)$. It is given that $(3x + 1)$ is a factor of $p(x)$, and that when $p(x)$ is divided by $(x - 2)$ the remainder is 21. Find the values of a and b . [5]

- 4 The parametric equations of a curve are

$$x = \frac{1}{\cos^3 t}, \quad y = \tan^3 t,$$

where $0 \leq t < \frac{1}{2}\pi$.

- (i) Show that $\frac{dy}{dx} = \sin t$. [4]

- (ii) Hence show that the equation of the tangent to the curve at the point with parameter t is $y = x \sin t - \tan t$. [3]

- 5 Throughout this question the use of a calculator is not permitted.

The complex numbers w and z satisfy the relation

$$w = \frac{z + i}{iz + 2}.$$

- (i) Given that $z = 1 + i$, find w , giving your answer in the form $x + iy$, where x and y are real. [4]

- (ii) Given instead that $w = z$ and the real part of z is negative, find z , giving your answer in the form $x + iy$, where x and y are real. [4]

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