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UACE MATHEMATICS PAPER 1 2012 and marking guide

Section A

- Solve the simultaneous equations
 $3x - y + z = 3$
 $x - 2y + 4z = 3$
 $2x + 3y - z = 4$
- (a) Prove that $\frac{\tan \theta}{1 + \tan^2 \theta} = \sin 2\theta$
 (b) Solve $\sin 2\theta = \cos \theta$ for $0^\circ \leq \theta \leq 90^\circ$.
- Differentiate $\frac{2x-1}{\sqrt{x^2+1}}$ with respect to x .
- A line passes through the points A(4, 6, 3) and B(1, 3, 3)
 (a) Find the vector equation of the line
 (b) Show that the point (2, 4, 3) lies on the line above
- The sum of the first n terms of Geometric Progression (G.P) is $\frac{4}{3}(x^n - 1)$. Find the n^{th} term as an integral power of x .
- The line $y = mx + c$ is a tangent to the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ when $c = \pm \sqrt{a^2 m^2 + b^2}$ find the equations of the tangents to the ellipse $\frac{x^2}{4} + \frac{y^2}{5} = 1$ from the point (0, $\sqrt{5}$)
- Using a suitable substitution, find $\int \frac{\sin^{-1} 2x}{\sqrt{1-4x^2}} dx$
- Find the equation of the normal to the curve $x^2y + 3y^2 - 4x - 12 = 0$ at the point (0, 2).

Section B

- If $z = \frac{(2-i)(3+12i)}{(1+2i)^2}$
 (a) Find
 (i) Modulus of z
 (ii) Argument of z
 (b) Represent z on a complex plane
 (c) Write z in the polar form
- (a) Solve the equation $8\cos^4 x - 10\cos^2 x + 3 = 0$
 (b) Prove that $\cos 4A - \cos 4B - \cos 4C = 4\sin 2B \sin 2C \cos 2A - 1$ given that A, B and C are angles of a triangle.
- Find
 (a) the derivative with respect to x of the following.
 (i) $\frac{\cos 2x}{1 + \sin 2x}$

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Michal Rosen-Zvi



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