

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
b. Express $\sqrt{3} + i$ in polar form.
c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

Mathematic Final Examination 2013 Grade11 Paper 1

Yan Bai



Mathematic Final Examination 2013 Grade11 Paper 1:

Embracing the Song of Expression: An Psychological Symphony within **Mathematic Final Examination 2013 Grade11 Paper 1**

In a world consumed by displays and the ceaseless chatter of fast interaction, the melodic splendor and mental symphony developed by the published word usually diminish into the backdrop, eclipsed by the persistent noise and interruptions that permeate our lives. Nevertheless, nestled within the pages of **Mathematic Final Examination 2013 Grade11 Paper 1** an enchanting fictional prize brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that fascinating masterpiece conducts readers on an emotional trip, well unraveling the hidden tunes and profound affect resonating within each cautiously crafted phrase. Within the depths with this poignant evaluation, we will examine the book is key harmonies, analyze their enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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