

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...

Grade 11 Mathematics Caps Final Exam Question

Yijin Wang



Grade 11 Mathematics Caps Final Exam Question:

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Grade 11 Mathematics Caps Final Exam Question**

In a global inundated with screens and the cacophony of immediate conversation, the profound power and emotional resonance of verbal art often fade into obscurity, eclipsed by the regular onslaught of noise and distractions. However, situated within the lyrical pages of **Grade 11 Mathematics Caps Final Exam Question**, a charming function of fictional beauty that pulses with natural thoughts, lies an unique trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that magical opus books viewers on a psychological odyssey, gently exposing the latent potential and profound affect stuck within the complicated internet of language. Within the heart-wrenching expanse of the evocative examination, we can embark upon an introspective exploration of the book is central themes, dissect its captivating writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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