

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 symmetry of the function $y = 8x^2$.
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function. $\tan^{-1}x = \sin^{-1} \frac{x}{\sqrt{1+x^2}}$
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.
5. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

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E. Brown,J. Jackson



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Connecting People to Their Oceans: Issues and Options for Effective Ocean Literacy Angel Borja, Francesca Santoro, Gail Scowcroft, Stephen Fletcher, Pierre Strosser, 2020-03-25 While there is growing evidence of the importance of marine ecosystems for our societies evidence shows also that pressures from human activities on these ecosystems are increasing putting the health of marine ecosystems at stake worldwide Hence Blue Economy is becoming an important component of future socio economic development strategies e g this is called Blue Growth in Europe that eventually can result in increasing pressures at sea and despite the current regulatory framework in particular with the Oceans Act in USA or Canada and the Marine Strategy Framework Directive in Europe it is likely that this situation will continue in the future Ensuring all those connected to the sea directly or indirectly gain a better understanding of the importance of the seas the human sea interactions and opportunities to act better and reduce impacts from human pressures is central to Ocean Literacy OL Receiving increasing attention in Europe and USA OL is a challenge for all parts of society educators 2 the role OL could play in interaction with innovation regulation economic incentive social norms to support human capital development as key component of sustainable growth and 3 pre conditions for effective OL for different sectors and target groups Questions relevant to OL include Which knowledge produced by whom to share and how Who to target and how to effectively reach those targeted How to design OL initiatives including by mobilizing those targeted via living lab approaches e g to ensure effective OL and pave the way for behavior change What are the knowledge gaps that limit our capacity to design effective OL As scientists it is likely you have many more questions to offer and discuss **Study & Master Mathematics** Paul Carter, Daan Van der Lith, 2008 **Bilum Books Phonics Activities for Papua New Guinea Grade 3 Student Book** E. Brown, J. Jackson, 2015-10-05 *Study & Master Study Guide* Trudi Turner, Claudia Wenholt, 2008

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