

QUESTION 12 (18 marks)

Based on the Entity concept parameters detailed below:

IS POWER SUPPLY			IS SOLENOID	
U ₀	11.2V		U ₁	12V
I ₀	2A		I ₁	2.5A
C ₀	15 μ F		C ₁	10 μ F
L ₀	95mH	Cable	L ₁	5mH
L/R	50 μ H/10m			

Cable Parameters are:
 Capacitance = 0.1 μ F/m
 Inductance = 0.5 μ H/m
 L/R = 50 μ H/10m

- Given the capacitance values for the power supply, cable and solenoid, what will be the maximum permitted cable length? (2 Marks)
- In considering your answer for part a), and the inductance values of each component, what can the maximum length of the cable be? (2 Marks)
- The solenoid is controlled from an output of the relay mounted in the main enclosure on the machine. The output contact of the relay is not shown in the parameter drawing above. Does it need to be considered when evaluating the circuit parameters? (1 Mark)
- What information would you expect to be displayed on the nameplate of the solenoid? (2 Marks)
- The label on the solenoid has "T2" marked on it. What specific installation requirement would have to be in place for this solenoid to be used on a continuous miner? (1 Mark)

Memos For N1 Maths

Yijin Wang



Memos For N1 Maths:

Contemporary Issues in Mathematics Education Estela A. Gavosto, Steven G. Krantz, William McCallum, 1999-06-13 This volume presents a serious discussion of educational issues with representations of opposing ideas [Computing Center Memo](#) University of Michigan Computing Center, 1969 *\$G\$-Global Homotopy Theory and Algebraic \$K\$-Theory* Tobias Lenz, 2025-02-25 View the abstract **Calabi-Yau Varieties: Arithmetic, Geometry and Physics** Radu Laza, Matthias Schütt, Noriko Yui, 2015-08-27 This volume presents a lively introduction to the rapidly developing and vast research areas surrounding Calabi Yau varieties and string theory With its coverage of the various perspectives of a wide area of topics such as Hodge theory Gross Siebert program moduli problems toric approach and arithmetic aspects the book gives a comprehensive overview of the current streams of mathematical research in the area The contributions in this book are based on lectures that took place during workshops with the following thematic titles Modular Forms Around String Theory Enumerative Geometry and Calabi Yau Varieties Physics Around Mirror Symmetry Hodge Theory in String Theory The book is ideal for graduate students and researchers learning about Calabi Yau varieties as well as physics students and string theorists who wish to learn the mathematics behind these varieties *Perverse Sheaves and Applications to Representation Theory* Pramod N. Achar, 2021-09-27 Since its inception around 1980 the theory of perverse sheaves has been a vital tool of fundamental importance in geometric representation theory This book which aims to make this theory accessible to students and researchers is divided into two parts The first six chapters give a comprehensive account of constructible and perverse sheaves on complex algebraic varieties including such topics as Artin's vanishing theorem smooth descent and the nearby cycles functor This part of the book also has a chapter on the equivariant derived category and brief surveys of side topics including tale and adic sheaves D modules and algebraic stacks The last four chapters of the book show how to put this machinery to work in the context of selected topics in geometric representation theory Kazhdan Lusztig theory Springer theory the geometric Satake equivalence and canonical bases for quantum groups Recent developments such as the p canonical basis are also discussed The book has more than 250 exercises many of which focus on explicit calculations with concrete examples It also features a 4 page Quick Reference that summarizes the most commonly used facts for computations similar to a table of integrals in a calculus textbook **2-Dimensional Categories** Niles Johnson, Donald Yau, 2021-01-31 Category theory emerged in the 1940s in the work of Samuel Eilenberg and Saunders Mac Lane It describes relationships between mathematical structures Outside of pure mathematics category theory is an important tool in physics computer science linguistics and a quickly growing list of other sciences This book is about 2 dimensional categories which add an extra dimension of richness and complexity to category theory 2 Dimensional Categories is an introduction to 2 categories and bicategories assuming only the most elementary aspects of category theory A review of basic category theory is followed by a systematic discussion of 2 bicategories pasting diagrams lax functors 2 bilimits the Duskin nerve 2 nerve

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Ricci Solitons in Dimensions 4 and Higher Bennett Chow, Brett Kotschwar, Ovidiu Munteanu, 2025-08-26 Ricci Solitons in Dimensions 4 and Higher offers a detailed account of recent developments of Ricci solitons self similar solutions to the Ricci flow equation which play a central role in modeling the formation of singularities of the flow Building on the foundational work of Hamilton and Perelman and the recent advances of Bamler Brendle and others this book focuses on the rich and technically demanding theory of these solutions With special attention to dimension 4 where potential applications to the topology of smooth 4 manifolds are most promising the authors present key results open problems and new perspectives on the structure and asymptotic behavior of complete noncompact solitons the case of greatest significance to singularity analysis The volume offers a systematic and research oriented reference for ongoing work in geometric analysis covering both foundational material and specialized topics Areas of focus include curvature growth and decay bounds on the number of topological ends asymptotically conical and asymptotically cylindrical solitons volume growth and applications of Bamler's theory Written for graduate students and researchers in differential geometry geometric analysis and mathematical physics the book is accessible to readers with a solid background in Riemannian geometry and partial differential equations While self contained in its core exposition it serves as both a technical resource and an invitation to contribute to the study of Ricci flow in dimensions 4 and higher

Applications of Secondary School Mathematics Joe Dan Austin, 1991 **The Mathematics Student**, 1968 *SIAM Journal on Applied Mathematics* Society for Industrial and Applied Mathematics, 1966 Contains research articles on mathematical methods and their applications in the physical engineering biological and medical sciences Current Index to Journals in Education, Semi-Annual Cumulation, July-December, 1976, 1976-10 **Current Index to Journals in Education**, 2000 *Industrial Mathematics*, 1976 **Publications of the Research Institute for Mathematical Sciences** Kyōto Daigaku. Sūri Kaiseiki Kenkyūjo, 1979 *Serials Holdings* Linda Hall Library, 1983 South African national bibliography, 1999 Classified list with author and title index *Guide to Reprints*, 2007 U.S. Government Research & Development Reports, 1967 Exceptional Child Education Resources, 1984 White Paper on the Report of the Committee to Investigate Causes of Riots and Disturbances in Kaduna State, 6th-12th March, 1987 Kaduna State (Nigeria), Kaduna State (Nigeria). Committee to Investigate the Causes of Riots and Disturbances in Kaduna State, 1987

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