

Subject – Math AI(Standard Level)
Topic - Function
Year - May 2021 – Nov 2022
Paper -2
Questions

Question 1

[Maximum mark: 17]

The braking distance of a vehicle is defined as the distance travelled from where the brakes are applied to the point where the vehicle comes to a complete stop.

The speed, $s \text{ m s}^{-1}$, and braking distance, $d \text{ m}$, of a truck were recorded. This information is summarized in the following table.

Speed, $s \text{ m s}^{-1}$	0	6	10
Braking distance, $d \text{ m}$	0	12	60

This information was used to create Model A, where d is a function of s , $s \geq 0$.

$$\text{Model A: } d(s) = ps^2 + qs, \text{ where } p, q \in \mathbb{Z}$$

At a speed of 6 m s^{-1} , Model A can be represented by the equation $6p + q = 2$.

- (a) (i) Write down a second equation to represent Model A, when the speed is 10 m s^{-1} .
(ii) Find the values of p and q . [4]
- (b) Find the coordinates of the vertex of the graph of $y = d(s)$. [2]
- (c) Using the values in the table and your answer to part (b), sketch the graph of $y = d(s)$ for $0 \leq s \leq 10$ and $-10 \leq d \leq 60$, clearly showing the vertex. [3]
- (d) Hence, identify why Model A may not be appropriate at lower speeds. [1]

Additional data was used to create Model B, a revised model for the braking distance of a truck.

$$\text{Model B: } d(s) = 0.95s^2 - 3.92s$$

- (e) Use Model B to calculate an estimate for the braking distance at a speed of 20 m s^{-1} . [2]
- The actual braking distance at 20 m s^{-1} is 320 m.
- (f) Calculate the percentage error in the estimate in part (e). [2]

Paper 2 Math SI Studies

C Cleary



Paper 2 Math SI Studies:

Second Handbook of Research on Mathematics Teaching and Learning Frank K. Lester, 2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflects the mathematics education research community's willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research findings might be for those outside their immediate community Issues in General and Specialized Mathematics Research: 2013 Edition ,2013-05-01 Issues in General and Specialized Mathematics Research 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about General Mathematics The editors have built Issues in General and Specialized Mathematics Research 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about General Mathematics in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in General and Specialized Mathematics Research 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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English,David Kirshner,2010-04-02 The second edition continues the mission of bringing together important new mathematics education research that makes a difference in both theory and practice It updates and extends the Handbook's original key themes and issues for international research in mathematics education for the 21st century namely priorities in international mathematics education research lifelong democratic access to powerful mathematical ideas advances in research methodologies influences of advanced technologies Each of these themes is examined in terms of learners teachers and learning contexts with theory development being an important component of all these aspects This edition also examines other catalysts that have gained increased import in recent years including a stronger focus on the teacher and teacher practice a renewed interest in theory development an increased focus on the mathematics needed in work place settings and a proliferation of research designs and methodologies that have provided unprecedented opportunities for investigating and ultimately improving mathematical teaching and learning This edition includes ten totally new chapters all other chapters are thoroughly revised and updated *How I Wish I Had Taught Maths: Reflections on research, conversations with experts, and 12 years of mistakes* Craig Barton,2018-01-01 I genuinely believe I have never taught mathematics better and my

students have never learned more I just wish I had known all of this twelve years ago Craig Barton is one of the UK's most respected teachers of mathematics In his remarkable new book he explains how he has delved into the world of academic research and emerged with a range of simple practical effective strategies that anyone can employ to save time and energy

and have a positive impact on the long term learning and enjoyment of students Craig presents the findings of over 100 books and research articles from the fields of Cognitive Science Memory Psychology and Behavioural Economics together with the conversations he has had with world renowned educational experts on his Mr Barton Maths Podcast and subsequent experiments with my students and colleagues [Handbook of Research on Educational Communications and Technology](#)

David H. Jonassen, 2004 This edition of this handbook updates and expands its review of the research theory issues and methodology that constitute the field of educational communications and technology Organized into seven sectors it profiles and integrates the following elements of this rapidly changing field *Handbook of Research for Educational*

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Chval, Dan Heck, Iris Weiss, Steven W. Ziebarth, 2012-09-01 Curriculum materials are among the most pervasive and powerful influences on school mathematics In many mathematics classes student assignments the questions the teacher asks the ways students are grouped the forms of assessment and much more originate in curriculum materials At the same time teachers have considerable latitude in how they use their curriculum materials Two classes making use of the same materials may differ markedly in what mathematics content is emphasized and how students are engaged in learning that content This volume considers a variety of research tools for investigating the enactment of mathematics curriculum materials describing the conceptualization development and uses of seven sets of tools Mathematics education researchers curriculum developers teacher educators district supervisors teacher leaders and math coaches will find insights that can improve their work and guidance for selecting adapting and using tools for understanding the complex relationship between curriculum materials and their enactment in classroom instruction **Advances in Operations Research Education** Jeroen Beliën, Ana Paula

Teixeira, Hans W. Ittmann, João Luís de Miranda, Marco Laumanns, Margarida Vaz Pato, 2018-02-16 This edited monograph contains a comprehensive overview of educational developments in the fields of operations research OR and management science MS The book outlines key factors in OR MS curricular programs and analyses different approaches regarding student enrollment and failure rates The approach is genuinely international whereas the focus lies on the European level The target audience primarily comprises public policy planners in education deans and school directors as well as program coordinators

Learning and Teaching Early Math Douglas H. Clements, Julie Sarama, 2009-04-01 In this important new book for pre and in service teachers early math experts Douglas Clements and Julie Sarama show how learning trajectories help teachers become more effective professionals By opening up new windows to seeing young children and the inherent delight and curiosity behind their mathematical reasoning learning trajectories ultimately make teaching more joyous They help teachers understand the varying level of knowledge and thinking of their classes and the individuals within them as key in serving the needs of all children In straightforward no nonsense language this book summarizes what is known about how children learn

mathematics and how to build on what they know to realize more effective teaching practice It will help teachers understand the learning trajectories of early mathematics and become quintessential professionals Canadian Journal of Mathematics,1988-02 **Research in Progress** United States. Army Research Office,1991 Vols for 1977 consist of two parts Chemistry

biological sciences engineering sciences metallurgy and materials science issued in the spring and Physics electronics mathematics geosciences issued in the fall **Handbook of Special Education Research, Volume I** Thomas W.

Farmer,Elizabeth Talbott,Kristen McMaster,David Lee,Terese C. Aceves,2022-05-10 Divided into two volumes Handbook of Special Education Research provides a comprehensive overview of critical issues in special education research This first volume addresses key topics in theory methods and development exploring how these three domains interconnect to build effective special education research Each chapter features considerations for future research and implications for fostering continuous improvement and innovation Essential reading for researchers and students of special education this handbook brings together diverse and complementary perspectives to help move the field forward *Research in Progress Between ...*

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materials sciences and indicates future challenges It seeks both to encourage mathematical sciences research that will complement vital research in materials science and to raise awareness of the value of quantitative methods The volume encourages both communities to increase cross disciplinary collaborations emphasizing that each has much to gain from such an increase and it presents recommendations for facilitating such work This book is written for both mathematical and materials science researchers interested in advancing research at this interface for federal and state agency representatives interested in encouraging such collaborations and for anyone wanting information on how such cross disciplinary collaborative efforts can be accomplished successfully

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