

CBSE Boards 2023

Answer & Solutions

Mathematics

Section-A

This section comprises of MCQ (Multiple choice question), each of 1 mark.

1. If $\frac{d}{dx} f(x) = 2x + \frac{3}{x}$ and $f(1) = 1$, then $f(x)$ is

(A) $x^2 + 3 \log|x| + 1$ (B) $x^2 + 3 \log|x|$

(C) $2 - \frac{3}{x^2}$ (D) $x^2 + 3 \log|x| - 4$

Sol. Answer (B)

Given equation is $\frac{d}{dx} f(x) = 2x + \frac{3}{x}$

Integrating on both sides

$$\int \frac{d}{dx} f(x) dx = \int \left(2x + \frac{3}{x} \right) dx$$

$$\Rightarrow f(x) = x^2 + 3 \ln|x| + c \dots (i)$$

Given that $f(1) = 1$

$$\therefore f(1) = 1 = 1 + c \Rightarrow c = 0$$

$$\therefore f(x) = x^2 + 3 \ln|x|$$

2. Degree of the differential equation $\sin x + \cos \left(\frac{dy}{dx} \right) = y^2$ is

(A) 2

(B) 1

(C) not defined

(D) 0

Sol. Answer (C)

Given differential equation is $\sin x + \cos \left(\frac{dy}{dx} \right) = y^2$

The order of the differential equation is 1.

The given differential equation cannot be written as a polynomial equation.

\therefore The degree of the differential equation is not defined.

Maths Question Paper Grade 12march

Arnold Kransdorff



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Corporate DNA Arnold Kransdorff,2017-05-15 For more than half a century the developed world has been chasing productivity It s financed our wealth but that part of output on which our continued prosperity depends productivity growth is petering out The traditional scapegoat has been the dearth of worker skills But the worker skills base has never been higher The other explanation is that it is managers who are not giving full value to their employers The way they re making decisions is conferring virtually no upside potential which means they re leaving us wide open for experience poor competitors to step into our experience rich shoes Exactly as Japan did in the 1960s and the so called BRICK countries Brazil Russia India China especially China and Korea are threatening now If creeping uncompetitiveness is not to overtake us from where are the next round of productivity gains to come from Identifying some gaping holes in the way managers are taught to manage this book outlines both the size of the problem and a solution Businesses and other organizations the author says have to substantially raise the quality of their decision making For this to happen they need to be much better experiential learners And for experiential learning to take place companies and other institutions have to better manage their corporate DNA the institution specific experiences otherwise known as Organizational Memory OM which characterizes any organization s ability to perform is the single biggest influence on decision making excellence It is a factor of production that has already been paid for at great expense yet is readily discarded in the backwash of the biggest change in workplace practice for more than a century the actively encouraged flexible labour market Corporate DNA explains why this key component of intellectual capital should be better managed can be better managed and particularly how it can be used to help organizations reduce the pandemic of repeated mistakes rei *The Engineer* ,1920 **Engineering Journal** ,1923

Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924

Pratiyogita Darpan ,2008-02 Pratiyogita Darpan monthly magazine is India s largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine The Times Index ,2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement **The Journal of the Engineering Institute of Canada** Engineering Institute of Canada,1923

Mathematisation and Demathematisation ,2007-01-01 In this volume scholars from diverse strands of research have contributed their perspectives on a process of mathematisation which renders social economical or political relationships increasingly formal At the same time mathematical skills lose their importance as they become replaced by diverse technological tools a process of demathematisation takes place The computerization of financial transactions calculation of taxes and fees comparison of prices as well as orientation by means of GPS visualisation of complex data and electronic voting systems all these mathematical technologies increasingly penetrate the lifestyle of consumers What are the perils and promises of this development Who is in charge who is affected who is excluded A common concern of all the authors of this volume is an attempt to draw attention to issues related to the formatting power of mathematics and to its role as implicit knowledge which results in a process of demathematisation This process having once received considerable attention is now threatened to be eclipsed by the proliferation of a discussion of school mathematics which shows a tendency of cutting off its own philosophical and political roots Taken together the contributions reveal a rather complex picture They draw attention to the importance of clarifying epistemological societal and ideological issues as a prerequisite for a discussion of curriculum

Atlanta Magazine ,2005-01 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region

Daily Graphic Sam Clegg,1992-11-04 *Annual Report* South Africa. Department of Education,2005 **The**

Schoolmasters Yearbook and Directory ,1908 *Congressional Record* United States. Congress,1969 **Working Mother** ,2002-10 The magazine that helps career moms balance their personal and professional lives *Pratiyogita Darpan* ,2008-04 Pratiyogita Darpan monthly magazine is India s largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine **The Standardisation of African Languages** ,2008 *The Man Who Saved Geometry* Siobhan Roberts,2024-10-29 An illuminating biography of one of the greatest geometers of the twentieth century Driven by a profound love of shapes and symmetries Donald Coxeter 1907 2003 preserved the tradition of classical geometry when it was under attack by influential mathematicians who promoted a more algebraic and austere approach His essential contributions include the famed Coxeter groups and Coxeter diagrams tools developed through his deep understanding of mathematical symmetry *The Man Who Saved Geometry* tells the story of Coxeter s life and work placing him alongside history s greatest geometers from Pythagoras and Plato to Archimedes and Euclid and it reveals how Coxeter s boundless creativity reflects the adventurous ever evolving nature of geometry itself With an incisive touching foreword by Douglas R Hofstadter *The Man Who Saved Geometry* is an unforgettable portrait of a visionary mathematician

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Student Book answer to Question 5. (above) although there are no ... b iron: malleable and magnetic (other answers are possible). 8 a both are metals as ... Ironworkers : Occupational Outlook Handbook Align structural and reinforcing iron and steel vertically and horizontally, using tag lines, plumb bobs, lasers, and levels; Connect iron and steel with bolts, ... Rigger Level I and Rigger Level II A Certified Rigger Level I can perform simple, repetitive rigging tasks when the load weight, center of gravity, the rigging, and rigging configuration are ... Hoisting & Rigging Fundamentals The material outlined in this manual outlines the requirements of the DOE Hoisting and. Rigging program. It requires persons who perform rigging or operate ... Student Activities Manual Answer Key, Lab Audioscript ... Student Activities Manual Answer Key, Lab Audioscript, Videoscript for Blitt/Casas' Exploraciones by Mary Ann Blitt - ISBN 10: 0495914177 - ISBN 13: ... Exploraciones-Student Activities Manual Answer Key Buy Exploraciones-Student Activities Manual Answer Key 11 edition (9780495914174) by Mary Ann Blitt for up to 90% off at Textbooks.com. Student Activities Manual Answer Key, Lab Audioscript ... Provided to instructors to share with students at their own discretion, the Answer Key provides answers to the activities in the Student Activities Manual. Student Activities Manual Answer Key, Lab Audioscript ... Buy Student Activities Manual Answer Key, Lab Audioscript, Videoscript for Blitt/Casas' Exploraciones 1 by Blitt, Mary Ann, Casas, Margarita (ISBN: ... Student Activities Manual Answer Key, Lab Audioscript ... Student Activities Manual Answer Key, Lab Audioscript, Videoscript for Blitt/Casas' Exploraciones. 1st Edition - 1 January 2011. ISBN-13: 978-0495914174 ISBN ... Student Activities Manual Answer Key, Lab... - ThriftBooks Provided to instructors to share with students at their own discretion, the Answer Key provides answers to the activities in the Student Activities Manual. Get Exploraciones Student Activities Manual Answers Complete Exploraciones Student Activities Manual Answers online with US Legal Forms. Easily fill out PDF blank, edit, and sign them. by Blitt, Mary Ann; Casas, Margarita Student Activities Manual Answer Key, Lab Audioscript, Videoscript for Blitt/Casas' Exploraciones by Blitt, Mary Ann; Casas, Margarita ; Format/Binding Paperback ... Student Activities Manual Answer Key, Lab Audioscript, ... Student Activities Manual Answer Key, Lab Audioscript, Videoscript for Blitt/Casas' Exploraciones (Paperback) ; Publisher: Cengage Learning, Inc ; ISBN: ... Student Activities Manual for Blitt/Casas' Exploraciones The eBook includes all of the key concepts that instructors, like you, require for your course, and a full suite of learning aids to accommodate your students' ...