

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.

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2012 GCSE English results Great Britain: Parliament: House of Commons: Education Committee,2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007 09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts raised concerns at the time but these were not acted upon by the regulator the then interim Ofqual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofqual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do

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Paper Qualification Syndrome (PQS) and Unemployment of School Leavers John Oxenham,1982

Pratiyogita Darpan ,2007-04 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

Resources in Education ,2001-10

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The Journal of the Engineering Institute of Canada Engineering Institute of Canada,1923

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 Schoolmasters' Yearbook & Educational Directory ,1915

Bulletin of the Atomic Scientists

,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world Encyclopedia of Special Education Cecil R. Reynolds, Elaine Fletcher-Janzen, 2007-01-02 Offers a thoroughly revised comprehensive A to Z compilation of authoritative information on the education of those with special needs *Teaching Mathematics Creatively* Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom **Engineering Journal** ,1929

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 Dominions Office and Colonial Office List ...**
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