

QUESTION 1

1.1 Solve for x :

1.1.1 $x^2 - 9 = 0$ (2)

1.1.2 $x - 5 + \frac{2}{x} = 0$ (correct to TWO decimal places) (4)

1.1.3 $x = 1 + \sqrt{7 - x}$ (5)

1.1.4 $x^2 + 2x - 15 \geq 0$ (3)

1.2 Solve simultaneously for x and y in:

$$\begin{aligned}y + 2x &= 3 \\y^2 - y &= 3x^2 - 5x\end{aligned}\quad (6)$$

1.3 Simplify completely, WITHOUT the use of a calculator: $\sqrt[n]{\frac{10^n + 2^{n+2}}{5^{2n} + 4(5^n)}}$ (4)
[24]

Grade 12 Mathematics Exemplar

Léo Pomar

Grade 12 Mathematics Exemplar:

The NAEP ... Technical Report ,1992 Assessment that Informs Practice ,2000 Focusing the New Design

Eugene G. Johnson, Rebecca Zwick, Nancy L. Allen, Albert E. Beaton, 1990 Details of the design and data analysis associated with the 1988 National Assessment of Educational Progress NAEP are presented. The 1988 NAEP surveyed American students knowledge of reading writing civics U S history and geography. Small scale studies were conducted for mathematics and science. Populations included public school students and private school students aged 9 13 and 17 years as well as students in grades 4 8 and 12. Geography was surveyed only at grade 12 age 17 years. The objective of these technical notes is to provide information to allow the reader to judge the utility of the design quality of the NAEP data, reasonableness of the assumptions made, appropriateness of the data analyses and generalizability of the inferences made from the data. Topics addressed include development of objectives and items, sample design, assessment instruments, field administration materials, processing and database creation, processing assessment materials, professional scoring, data transcription systems, editing, data quality control, of data entry database products, weighting procedures and estimation of sampling variance scaling procedures, data analysis for the various subject area assessments and the statistical summary of the samples and estimates of proficiencies of U S students. A total of 204 data tables and 14 figures are provided. Appendices provide a list of consultants for development of the 1988 NAEP objectives and items, distributions of weight components for the 1988 NAEP samples, contrast codings and estimated effects for 1988 NAEP conditioning variables, 1988 NAEP derived and composite conditioning variables, revision of 1984 NAEP post stratification weights for grade 4 age 9 years and grade 8 age 13 years, 1988 NAEP item response theory parameters and NAEP reporting subgroups composite and derived common background variables and subject specific composite and derived reporting variables. A glossary of terms, a list of references cited in the text and an index are included.

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Chapter-wise NCERT + Exemplar + Past 11 Years Solutions for CBSE Class 12 Mathematics 5th Edition Disha Experts, The book provides Step by step Chapter wise Solutions to the 3 Most Important requirements of the students NCERT Book Exemplar Book Past 10 Years Solutions for CBSE Class 12 The 5th Edition of the book is divided into 3 sections Section 1 NCERT Exercise consists of solutions to all Intext and chapter exercises Section 2 Past Year Questions of Past 10 years with Solutions Section 3 Exemplar Problems Solutions to select NCERT Exemplar problems South Africa Yearbook ,2009

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