

## Mid-year Exam: Trig and Geometry

### Question 1: Trigonometry

1.1 Solve the following by using your calculator (round to two places where necessary):

1.1.1  $\sin 44^\circ$

1.1.2  $3 \tan(15^\circ + 6^\circ)$

1.1.3  $\operatorname{cosec}^2 70^\circ$

1.1.4  $\sin^2 70^\circ$

1.1.5  $\frac{3 \sin 125^\circ}{\tan 221^\circ \cdot \cos 64^\circ}$

1.1.6  $\frac{1}{\cos(3 \tan^{-1} 2)}$

1.2 Solve for  $x$  in each of the following:

1.2.1  $\frac{2}{\tan x} = 1,34$

1.2.2  $\cos^{-1} \frac{1}{2} = x$

1.2.3  $\sin\left(\frac{x}{2}\right) = 0,75$

1.2.4  $\sin(2x - 5^\circ) = \cos 10,5^\circ$

1.2.5  $\frac{1}{2} \cos x = 0,214$

1.2.6  $\tan(x - 20^\circ) = 1,43$

1.3 If  $x = 25^\circ$  and  $y = 34^\circ$ , solve the following:

1.3.1  $\sin^2 x + \cos^2 y$

1.3.2  $\cos(x + y + 20^\circ)$

### Question 2:

2.1 In the diagram  $AC = 13$  units,  $AD = 3$  units.  $\angle B\hat{A}$  and  $B\hat{D}C$  are right angles.



2.1.1 Determine the length of  $BC$ , correct to the nearest whole number.

2.1.2 Determine the value of angle  $\beta$ , correct to two decimal numbers.

# 10 Maths Grade 10 Mid Year Exam Limpopo

**L Reisser**



## 10 Maths Grade 10 Mid Year Exam Limpopo:

*The Report: South Africa 2014* Oxford Business Group, 2014-12-08 Indeed since the end of apartheid in 1994 South Africa has become a major diplomatic player both on the African continent as well as further afield Despite the size of South Africa's economy the country currently faces a number of major economic challenges As of the end of July 2014 the unemployment rate was at 25.5% according to data from Statistics South Africa which was among the highest in the world While the government's long term development plans are generally highly regarded delivery and execution has occasionally been problematic While there are major hurdles that must be cleared given the country's strong institutions and the rapid pace of economic expansion over the past two decades South Africa should be able to look forward to 20 more years of peace and steady sustained economic growth

Workbook - Grade 10 Math with Answer Key Eran Levin, 2014-10-15 This is a Student workbook for the Grade 10 students with full answer key More info and free material can be found at <http://ibmathworkbooks.com> The index of the workbook is CHAPTER 1 ALGEBRA 1.1 Order of operations 1.2 Decimals and fractions 1.3 Percentages 1.4 Prime numbers LCD and GCD 1.5 Types of numbers 1.6 Roots and rationalization 1.7 Interval notation and inequalities 1.8 Exponents 1.9 Equations 1.10 Expanding and factoring 1.11 Evaluating expressions 1.12 Equations with absolute value 1.13 Logarithms and logarithmic equations 1.14 Sequences and series 1.15 Significant figures 1.16 Scientific notation CHAPTER 2 GEOMETRY 2.1 Geometry 2.2 Geometric transformations CHAPTER 3 FUNCTIONS 3.1 Introduction to functions 3.2 Linear functions 3.3 Quadratic functions CHAPTER 4 TRIGONOMETRY 4.1 Degrees and Radians 4.2 Definition of the Trigonometric functions 4.3 Trigonometric functions 4.4 Sine and Cosine Rule 4.5 Trigonometric Ratios 4.6 Inverse Trigonometric functions CHAPTER 5 SETS 5.1 Sets CHAPTER 6 STATISTICS 6.1 Statistics 6.2 Mean Median Mode and Frequency diagrams 6.3 Probability CHAPTER 7 7.1 International system of units 7.2 Common errors 7.3 Review of fractions

*Cracking the MCAS*. Jeff Rubenstein, Princeton Review (Firm), 2001-03-13 The Princeton Review realizes that acing the MCAS Grade 10 Math exam is very different from getting straight As in school TPR doesn't try to teach students everything there is to know about math only what they'll need to score higher on the exam There's a big difference In *Cracking the MCAS Grade 10 Math* The Princeton Review will teach test takers how to think like the test makers and raise scores by using techniques such as the two pass system Ballparking and Process of Elimination Get students familiar with the test format so they won't be surprised on the test day Score higher by knowing in advance what will be on the test Learn problem solving skills that are designed to help test takers ace the MCAS Grade 10 Math exam This book includes 2 full length simulated MCAS Grade 10 Math exams The questions are just like the ones test takers will see on the actual exam and The Princeton Review fully explains every solution Contents Include Introduction to the MCAS Exams Structure and Strategies II Subject Review Number Sense Geometry and Measurement Patterns Relations and Functions Statistics and Probability Solutions and Exercises III The Princeton Review Practice Tests

**Exambuster** Magret Courtney-Clarke, 2011 **On Track with Maths**

Kate Bennie, Fiona Heany, 2005      TX MUE New Math Grade 10 Test 2 Single Diane Miller, 2009-01-01      Mathematics, 2001      **Excel SmartStudy Yr 10 Mathematics** Lyn Baker, 2014-11-30 Study guide for year 10 in the subject of mathematics This book serves as a structured revision program for all students undertaking Year 10 Mathematics It has been designed to help students revise for class tests half yearly and end of year exams It is structured to consolidate students understanding in line with Australian Curriculum outcomes Through concise Study Notes Skills Checks Intermediate Advanced Tests Sample Exam Papers and Worked Solutions this book will ensure that your child is fully prepared for class exams      **Mathematics - 100 Mini Year 10 Exams** John David Smith, 1998      **TX MUE New Math Grade 10 Test 1 Single** Diane Miller, 2009-01-01      Year 10 Maths Topic Tests, 2022-05      **Technical Mathematics**, 2015      **MCAS - Mathematics, Grade 10** Research & Education Association Editors, 2013-06-05 Revised second edition aligned for the 2008 2009 testing cycle with a full index REA's MCAS Grade 10 Mathematics provides all the instruction and practice students need to excel on this high stakes exam The book contains all test components that students will encounter on the official exam Number Sense and Operations Data Analysis Probability and Statistics Geometry Measurement and Patterns Relations and Algebra 2 full length practice tests measure learning and progress and confidence building drills boost test day readiness DETAILS Fully aligned with the official state exam 2 full length practice tests Drills help students organize comprehend and practice Lessons enhance necessary mathematics skills Confidence building tips reduce test anxiety and boost test day readiness REA Real review Real practice Real results      **TX MUE New Math Grade 10 Test 2 30 Pack** Diane Miller, 2009-01-01      *New Approach to Mathematics. Grade 10, Level 1, First Semester* Frank Aaron Hoskin, Keith Alexander Dan, 1973      *Grade 10 Exam Prep* Duard Le Roux, 2023      **Excel SmartStudy Yr 10 Adv Maths** Lyn Baker, 2014-11-30 This book outlines the six steps to test and exam success Step 1 Study Notes Step 2 Skills Check Step 3 Intermediate Test Step 4 Advanced Test Step 5 Sample Exam Papers Step 6 Check Your Worked Solutions CHAPTERS Number and Algebra Real Numbers Functions and Other Graphs Polynomials Linear and Non linear Relationships Algebraic Techniques Measurement and Geometry Surface Area and Volume Geometry Circle Geometry Pythagoras and Trigonometry Statistics and Probability Mean and Standard Deviation Investigations of Data Sets and Reports      *A Comparison of Grade 10 Mathematics Classroom-based Test Items and the End-of-year National Examinations, Using Stein's Framework of Cognitive Demands* Saima Namupa Ihonya, 2014      *Mathematics. Grade 10*, 1970      **Mathematical Achievement Tests** Ernst Rudolph Breslich,

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