

**NOTE:**

- If a candidate answers a question **TWICE**, only mark the **FIRST** attempt.
- Consistent accuracy applies in all aspects of the marking memorandum.

**LET WEL:**

- Indien 'n kandidaat 'n vraag **TWEE** keer beantwoord, merk slegs die **EERSTE** poging.
- Volgehoue akkuraatheid is **DEURGAANS** op **ALLE** aspekte van die memorandum van toepassing.

**QUESTION/VRAAG 1**

1.1.1	$(x - 2)(4 + x) = 0$ $x = 2$ or $x = -4$	$\checkmark x = 2$ $\checkmark x = -4$ <b>(2)</b>
1.1.2	$3x^2 - 2x - 14 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $x = \frac{2 \pm \sqrt{(-2)^2 - 4(3)(-14)}}{2(3)}$ $= \frac{2 \pm \sqrt{172}}{6}$ $x = 2,52$ or/of $x = -1,85$  <b>OR/OF</b> $x^2 - \frac{2}{3}x + \frac{1}{9} = \frac{14}{3} + \frac{1}{9}$ $\left(x - \frac{1}{3}\right)^2 = \frac{43}{9}$ $x - \frac{1}{3} = \pm \frac{\sqrt{43}}{3}$ $\therefore x = \frac{1 \pm \sqrt{43}}{3}$ $x = 2,52$ or/of $x = -1,85$	$\checkmark$ standard form/standaardvorm  $\checkmark$ substitution into correct formula/substitusie in korrekte formule  $\checkmark\checkmark$ answers/antwoorde <b>(4)</b>  $\checkmark$ for adding $\frac{1}{9}$ on both sides/ref $\frac{1}{9}$ by aan beide kante  $\checkmark x = \frac{1 \pm \sqrt{43}}{3}$ $\checkmark\checkmark$ answers <b>(4)</b>

# Mathematics Grade9 2014 Memorandum June

**Amanda Alzena Sullivan**



## **Mathematics Grade9 2014 Memorandum June:**

**Caught in the Act** Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in *Caught in the Act* draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers Bloomberg Chris McNickle, 2017-09-19 Examine the Bipartisan Legacy of a Remarkable Billionaire Politician Bloomberg A Billionaire s Ambition tells the story of how one of America s most successful entrepreneurs was elected mayor of New York City and what he did with the power he won Bloomberg s stunning victory against all odds just weeks after the 9 11 terrorist attack left him facing challenges unlike any mayor in history For the next twelve years he kept the city safe managed budgets through fiscal crises promoted private sector growth generated jobs built infrastructure protected the environment supported society s cultural sensibilities and achieved dramatic improvements in public health Bloomberg was an activist executive who used government assets boldly and wisely for the greatest good for the greatest number of people His time as mayor was not without controversy Bloomberg supported stop and frisk police tactics that a judge ruled unconstitutional and jailhouse violence rose to levels so severe the federal government intervened The administration s homeless policies were ineffective And he forced a change in the city charter to allow him to serve a third term Overall record low crime and the lasting impact of innovative policies will cause his tenure to be remembered as a remarkable success Having returned to his global media empire and to his private philanthropy Bloomberg continues to challenge the National Rifle Association on gun control promote national education reform and support policies to combat climate change Frequently touted as an independent candidate for president Bloomberg leaves behind a legacy of effective government **The Complete Book of Colleges, 2017 Edition** Princeton Review, 2016-07 The MEGA GUIDE to 1 355 COLLEGES AND UNIVERSITIES No one knows colleges better than The Princeton Review Inside The Complete Book of Colleges 2017 Edition you ll find meticulously researched information that will help you narrow the search for the best college for you Each of the 1 355 user friendly profiles answers your questions including How much are tuition and other student fees and costs What types of financial aid are available and when are the applications due What do admissions officers most look for in test scores and recommendations Which majors are the most popular and have the highest enrollment What is the housing like and how accessible is technology on campus What are the key campus organizations athletics and student activities How selective is the school Plus Indexes based on cost

selectivity and size that will help you narrow your search Get a leg up on your college search with this easy to use comprehensive and savvy guidebook from the experts at The Princeton Review      **The Complete Book of Colleges, 2018 Edition** Princeton Review,2017-07 Includes information on admissions cost financial aid required and recommended admissions criteria cost breakdowns and types of financial aid for 1 355 colleges and universities      **Breaking the STEM Stereotype** Amanda Alzena Sullivan,2019-10-21 Men continue to outnumber women in numerous technical STEM Science Technology Engineering and Math fields such as engineering and computer science Prior work demonstrates the importance of introducing girls to STEM content early on before gender stereotypes are ingrained However many parents and teachers are not sure how to do this in a developmentally appropriate and playful way Breaking the STEM Stereotype Reaching Girls in Childhood by Dr Amanda Sullivan Ph D explores the various social cultural and psychological reasons behind the persistent gender disparity between men and women in STEM fields By explaining the powerful role of stereotypes the media and experiences with peers and adults during the foundational early childhood years this book builds the case of early childhood being a critical time in development to reach girls Breaking the STEM Stereotype is set up in three parts Part 1 provides the current state of the gender divide in each aspect of STEM and explores why early childhood is a critical time to address this divide Part 2 explores gender identity development and gender stereotypes as well as the influences of the media advertising and adult and peer role models on young children Finally Part 3 arms readers with the knowledge they need to dispel gender stereotypes in STEM It provides suggestions on tools technologies and kits that can be used with young girls beginning in pre kindergarten It provides materials needed to design effective curricula and activities to engage girls with STEM in playful ways that build on their personal interests      **Keys** Andrea Morgan,2015      **Principles of Mathematics 9** Marian Small,Chris Kirkpatrick,Crystal Chilvers,David Zimmer,Santo D'Agostino,Doug Duff,Kristina Farentino,Ian Macpherson,Joyce Tonner,James Williamson,T. Anne Yeager,2012-11-16 Nelson Principles of Mathematics 9 ensures students build a solid foundation of learning so they are prepared for success in Grade 12 and beyond Features Frequently Asked Questions provide accessible review Sample achievement category questions identified in every lesson Appropriate use of technology to support student needs including TI 83 Plus TI 84 Plus TI 89 CAS The Geometer's Sketchpad Spreadsheets EQAO style questions and chapter tasks help students throughout the year in preparation for the provincial test      *Principles of Mathematics, Grade Nine, Academic, MPM 1D* Alex Belloni,Patricia Kehoe,June Flynn-Turner,Philip A. Rocco,Ottawa-Carleton Catholic School Board,2000

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