

Ekurhuleni North	District Paper – Mathematics Paper 2 Grade 11 Marking Guideline	June 2023
SOLUTION NB: Accept valid alternate solutions. Consistent Accuracy applies to the whole memo.		
QUESTION 1		
1.1	$m_{HM} = \frac{6 - 4}{3 + 1}$ $= \frac{1}{2}$	✓ subs into formula ✓ answer
1.2	$R(x; y) = \left(\frac{3 + 4}{2}; \frac{6 + 1}{2} \right)$ $= \left(\frac{7}{2}; \frac{7}{2} \right)$	✓ Correct Substitution ✓ Answer
1.3	$m_{HM} = m_{AP}$ $\tan \theta = \frac{1}{2}$ $\theta = 26,57^\circ$	✓ $HM \parallel AT$ ✓ Correct substitution ✓ Answer
1.4	<p>R is the midpoint of diagonal AH (Diags of a parm) Let the coordinates of A be $(x; y)$.</p> $\frac{-1 + x}{2} = \frac{7}{2}$ $x = 8$ $\frac{4 + y}{2} = \frac{7}{2}$ $y = 3$ <p>$\therefore A(8; 3)$</p>	$\checkmark \frac{-1+x}{2} = \frac{7}{2}$ $\checkmark 8$ $\checkmark \frac{4+y}{2} = \frac{7}{2}$ $\checkmark 3$
1.5	$m_{AT} = \frac{1}{2} \text{ (parallel lines)}$ $y = \frac{1}{2}x + c$ <p>Sub $T(4; 1)$</p>	 ✓ Sub $T(4; 1)$ ✓ $c = -1$

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Camilla Rothe



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Table of Contents Maths Prep Paper1 Memorandum North West 2013

1. Understanding the eBook Maths Prep Paper1 Memorandum North West 2013
 - The Rise of Digital Reading Maths Prep Paper1 Memorandum North West 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Prep Paper1 Memorandum North West 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Prep Paper1 Memorandum North West 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Prep Paper1 Memorandum North West 2013
 - Personalized Recommendations
 - Maths Prep Paper1 Memorandum North West 2013 User Reviews and Ratings
 - Maths Prep Paper1 Memorandum North West 2013 and Bestseller Lists
5. Accessing Maths Prep Paper1 Memorandum North West 2013 Free and Paid eBooks
 - Maths Prep Paper1 Memorandum North West 2013 Public Domain eBooks
 - Maths Prep Paper1 Memorandum North West 2013 eBook Subscription Services
 - Maths Prep Paper1 Memorandum North West 2013 Budget-Friendly Options

6. Navigating Maths Prep Paper1 Memorandum North West 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Prep Paper1 Memorandum North West 2013 Compatibility with Devices
 - Maths Prep Paper1 Memorandum North West 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Prep Paper1 Memorandum North West 2013
 - Highlighting and Note-Taking Maths Prep Paper1 Memorandum North West 2013
 - Interactive Elements Maths Prep Paper1 Memorandum North West 2013
8. Staying Engaged with Maths Prep Paper1 Memorandum North West 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Prep Paper1 Memorandum North West 2013
9. Balancing eBooks and Physical Books Maths Prep Paper1 Memorandum North West 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Prep Paper1 Memorandum North West 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Prep Paper1 Memorandum North West 2013
 - Setting Reading Goals Maths Prep Paper1 Memorandum North West 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Prep Paper1 Memorandum North West 2013
 - Fact-Checking eBook Content of Maths Prep Paper1 Memorandum North West 2013
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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