

Ekurhuleni North	District Paper – Mathematics Paper 2 Grade 11 Marking Guideline	June 2023
<b>SOLUTION</b> <b>NB:</b> Accept valid alternate solutions. <b>Consistent Accuracy</b> applies to the whole memo.		
<b>QUESTION 1</b>		
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><math>R</math> is the midpoint of diagonal <math>AH</math> (Diags of a parm)          Let the coordinates of <math>A</math> be <math>(x; y)</math>.</p> $\frac{-1 + x}{2} = \frac{7}{2}$ $x = 8$ $\frac{4 + y}{2} = \frac{7}{2}$ $y = 3$ <p><math>\therefore A(8; 3)</math></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 <math>T(4; 1)</math></p>	    ✓ Sub $T(4; 1)$   ✓ $c = -1$

# Mathematics Memorandum November 2014 Grade 11

**John F. Dooley**



## **Mathematics Memorandum November 2014 Grade 11:**

*The Gambler and the Scholars* John F. Dooley, 2023-04-05 In May 1917 William and Elizebeth Friedman were asked by the U S Army to begin training officers in cryptanalysis and to decrypt intercepted German diplomatic and military communications In June 1917 Herbert Yardley convinced the new head of the Army s Military Intelligence Division to create a code and cipher section for the Army with himself as its head These two seminal events were the beginning of modern American cryptology the growth of which culminated 35 years later with the creation of the National Security Agency Each running their own cryptologic agencies in the 1920s the Friedman Yardley relationship was shattered after Yardley published a tell all book about his time in military intelligence Yet in the end the work they all started in 1917 led directly to the modern American intelligence community As they got older they became increasingly irrelevant in the burgeoning American cryptologic fraternity Topics and features Examines the lives of three remarkable and pioneering cryptologists Offers fascinating insights into spies codes and ciphers rumrunners poker and military history Sheds new light on interesting parts of the cryptologists careers especially Elizebeth Friedman whose work during World War II has just begun to be explored Recounts several good stories i e What if the Friedmans had gone to work for Herbert Yardley in his new Cipher Bureau in 1919 What if Yardley had moved back to Washington to work for William Friedman a decade later This enjoyable book has wide appeal for general readers interested in the evolution of American cryptology American historians particularly of World War I the inter war period and World War II signals intelligence and historians of and general readers interested in American military intelligence It also can be used as an auxiliary text or recommended reading in introductory or survey courses in history or on the related topics

**Applied Public Relations** Kathy Brittain Richardson, Marcie Hinton, 2015-03-27 With its practical orientation and scope Applied Public Relations is the ideal text for any public relations case studies or public relations management course that places an emphasis on stakeholder groups Through the presentation of current cases covering a wide variety of industries locations and settings Kathy Richardson and Marcie Hinton examine how real organizations develop and maintain their relationships offering valuable insights into business and organizational management practices The book s organization of case studies allows instructors to use the text in several ways instructors can focus on specific stakeholders by using the chapters presented they can focus on particular issues such as labor relations or crisis management by selecting cases from within several chapters or they can select cases that contrast campaigns with ongoing programs or managerial behaviors A focus on ethics and social responsibility underlies the book and students are challenged to assess the effectiveness of the practices outlined and understand the ethical implications of those choices This Third Edition features 25 new and current domestic and international case studies specifically chosen for their relevancy and relatability to students New Professional Insights commentaries where practitioners respond to a set of questions relating to their work Increased emphasis on ethics and social responsibility Fully enhanced companion website that is connected with

the text including a test bank and PowerPoint presentations for instructors and chapter specific discussion questions and additional readings for students      **Competency-Based Education** Rose L. Colby, 2019-01-02 Competency Based Education introduces educators to a new model for anytime anywhere schooling and provides tools and curriculum resources for redesigning the traditional structures of K 12 schools Based on pioneering work across multiple states the book shows how educators can design central elements of competency based education including performance tasks personal learning plans and grading systems to meet the needs and interests of all students Rose L Colby provides critical tools for creating these elements in collaborative teams and engaging stakeholders such as educators parents and community members The book incorporates case studies and voices from the field and examines the variety of competency models that schools have adopted highlighting the benefits for students Competency Based Education provides a much needed resource at a time when states districts and schools are working to implement competency based models and experimenting with new accountability systems that include evidence of learning beyond standardized tests      **Forthcoming Books** Rose Arny, 1997

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