

NOTE:

- If a candidate answers a question TWICE, only mark the FIRST attempt.
- If a candidate has crossed out an attempt of a question and not redone the question, mark the crossed out version.
- Consistent Accuracy applies in all aspects of the marking memorandum.

QUESTION 1

1.1.1	$x(x+1) = 6$ $x^2 + x = 6$ $x^2 + x - 6 = 0$ $(x+3)(x-2) = 0$ $x = -3 \text{ or } 2$ <p>OR</p> $x^2 + x - 6 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-1 \pm \sqrt{1^2 - 4(1)(-6)}}{2(1)}$ $x = -3 \text{ or } 2$	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Note: Answers by inspection: award 3/3 marks</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Note: Answer only of $x = 2$: award 1/3 marks</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>Note: If candidate converts equation to linear: award 0/3 marks</p> </div>	<ul style="list-style-type: none"> ✓ standard form ✓ factors ✓ answers (3) <ul style="list-style-type: none"> ✓ standard form <ul style="list-style-type: none"> ✓ substitution into correct formula ✓ answers (3)
1.1.2	$3x^2 - 4x - 8 = 0$ $3x^2 - 4x - 8 = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $= \frac{-(-4) \pm \sqrt{(-4)^2 - 4(3)(-8)}}{2(3)}$ $= \frac{4 \pm \sqrt{16 + 96}}{6}$ $= \frac{4 \pm \sqrt{112}}{6}$ $= \frac{2 \pm 2\sqrt{7}}{3}$ $= 2,43 \text{ or } -1,10$	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Note: If candidate uses incorrect formula: maximum 1/4 marks (for standard form)</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>Note: If an error in subs and gets: $\frac{4 \pm \sqrt{-80}}{6}$ and states "no solution": maximum 3/4 marks</p> <p>If doesn't conclude with "no solution": maximum 2/4 marks</p> </div>	<ul style="list-style-type: none"> ✓ standard form <ul style="list-style-type: none"> ✓ substitution into correct formula <ul style="list-style-type: none"> ✓ $\sqrt{112}$ ✓ $\frac{4 \pm \sqrt{112}}{6}$ or decimal answer (4)

Mathematics Paper 1 Feb Mar 2014 Memorandum

**Francois Melese, Anke Richter, Binyam
Solomon**

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The Scientific Journal Alex Csiszar, 2018-06-25 Not since the printing press has a media object been as celebrated for its role in the advancement of knowledge as the scientific journal From open communication to peer review the scientific journal has long been central both to the identity of academic scientists and to the public legitimacy of scientific knowledge But that was not always the case At the dawn of the nineteenth century academies and societies dominated elite study of the natural world Journals were a relatively marginal feature of this world and sometimes even an object of outright suspicion The *Scientific Journal* tells the story of how that changed Alex Csiszar takes readers deep into nineteenth century London and Paris where savants struggled to reshape scientific life in the light of rapidly changing political mores and the growing importance of the press in public life The scientific journal did not arise as a natural solution to the problem of communicating scientific discoveries Rather as Csiszar shows its dominance was a hard won compromise born of political exigencies shifting epistemic values intellectual property debates and the demands of commerce Many of the tensions and problems that plague scholarly publishing today are rooted in these tangled beginnings As we seek to make sense of our own moment of intense experimentation in publishing platforms peer review and information curation Csiszar argues powerfully that a better understanding of the journal's past will be crucial to imagining future forms for the expression and organization of knowledge

An Age of Accountability John L. Rury, 2023-10-13 *An Age of Accountability* highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree

Military Cost-Benefit Analysis Francois Melese, Anke Richter, Binyam Solomon, 2015-03-27 This is the first comprehensive book on Military Cost Benefit Analysis and provides novel approaches to structuring cost benefit and affordability analysis amidst an uncertain defense environment and cloudy fiscal prospects Lifting the veil on military Cost Benefit Analysis this volume offers several new practical tools designed to guide defense investments and divestments combined with a selection of real world applications The widespread employment of Cost Benefit Analysis offers a unique opportunity to transform legacy defense forces into efficient effective and accountable 21st century organizations A synthesis of economics statistics and decision theory CBA is currently used in a wide range of defense applications in countries around

the world i to shape national security strategy ii to set acquisition policy and iii to inform critical investments in people equipment infrastructure services and supplies As sovereign debt challenges squeeze national budgets and emerging threats disrupt traditional notions of security this volume offers valuable tools to navigate the political landscape meet calls for fiscal accountability and boost the effectiveness of defense investments to help guarantee future peace and stability A valuable resource for scholars practitioners novices and experts this book offers a comprehensive overview of Military Cost Benefit Analysis and will appeal to anyone interested or involved in improving national security and will also be of general interest to those responsible for major government programs projects or policies **Click Here to Kill Everybody** Bruce

Schneier,2018-09-04 Sober lucid and often wise Nature The Internet is powerful but it is not safe As smart devices proliferate the risks will get worse unless we act now From driverless cars to smart thermostats from autonomous stock trading systems to drones equipped with their own behavioral algorithms the Internet now has direct effects on the physical world Forget data theft cutting edge digital attackers can now literally crash your car pacemaker and home security system as well as everyone else s In **Click Here to Kill Everybody** best selling author Bruce Schneier explores the risks and security implications of our new hyper connected era and lays out common sense policies that will allow us to enjoy the benefits of this omnipotent age without falling prey to the consequences of its insecurity **Guide to Microforms in Print** ,1988

U.S. Government Research & Development Reports ,1971 *Aero/space Engineering* ,1958 Government Reports Announcements & Index ,1992 A Directory of Computer Software Applications ,1979 **The Journal of Biolaw & Business** ,2004 *Who's who Among Students in American Universities and Colleges* Henry Pettus Randall,1977 *Modern Electronics* ,1988

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mathematics Paper 1 Feb Mar 2014 Memorandum**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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