QUESTION 1

1.1 Solve for x:

$$1.1.1 \quad x^2 - 9 = 0 \tag{2}$$

1.1.2
$$x-5+\frac{2}{x}=0$$
 (correct to TWO decimal places) (4)

1.1.3
$$x = 1 + \sqrt{7 - x}$$
 (5)

$$1.1.4 x^2 + 2x - 15 \ge 0 (3)$$

1.2 Solve simultaneously for x and y in:

$$y + 2x = 3$$

$$y^2 - y = 3x^2 - 5x$$
 (6)

1.3 Simplify completely, WITHOUT the use of a calculator:
$$\sqrt[n]{\frac{10^n + 2^{n+2}}{5^{2n} + 4(5^n)}}$$
 (4) [24]

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Promoting Change through Action Research Franz Rauch, Angela Schuster, Thomas Stern, Maria Pribila, Andrew Townsend, 2014-11-04 Bringing a different world into existence Action Research as a trigger for innovations was the overarching theme and vision of the international CARN Conference 2011 in Vienna The chapters in this book are drawn mainly from conference contributions The authors share practical knowledge which has arisen from their work and reflect on development processes in schools in teacher education and professional development social work social peda gogy health care and community development This book offers what some critics believe has been missing in recent action research literature namely first person accounts of action researchers who endeavour to change working conditions and social relations in their environment through the conduct of action research This book is also distinguished by assembling contributions from people who are linking action research to a broad diversity of differing contexts and who are exploring topics or issues across various applications of action research **Proceedings of Regional Tribology Conference 2011** M.A. Malegue, A. A. Adebisi, 2011-11-22 This book is a compilation of papers presented at the Regional Tribology Conference 2011 RTC2011 Langkawi Malaysia on 22 24 November 2011 Youth and Skills ,2012-01-01 Many young people around the world especially the disadvantaged are leaving school without the skills they need to thrive in society and find decent jobs As well as thwarting young people s hopes these education failures are jeopardizing equitable economic growth and social cohesion and preventing many countries from reaping the potential benefits of their growing youth populations The 2012 Education for All Global Monitoring Report examines how skills development programmes can be improved to boost young people s opportunities for decent jobs and better lives Publisher's description Business Communication: Building Critical Skills Kitty Locker, Stephen Kaczmarek, 2013-03-08 Freedom Flexibility Focus Business Communication Building Critical Skills was built to provide the ultimate in freedom flexibility and focused classroom Broken into 30 modular chapters this text provides topic focused modules allowing instructors to customize their resources piece by piece to best suite their course and teaching style Each module has a strong workplace activity orientation supporting students to build critical skills in writing speaking and listening Locker Kaczmarek is grounded in solid business communication fundamentals and supports students to piece together what is needed to be a successful communicator for the 21st century The Armed Forces Covenant in action? Great Britain: Parliament: House of Commons: Defence Committee, 2013-07-18 A series of Ofsted inspections on Army Apprenticeships conducted in 2013 rated the overall effectiveness as good This was an improvement over the last inspection in 2009 rated as satisfactory now called requires improvement Some 28 per cent of Army recruits were less than 18 years of age Further information is needed on why the Army is so dependent on recruiting personnel under the age of 18 years compared to the other two Services and whether steps are being taken to reduce this dependency Of those recruited in 2012 3 5 per cent of the Army were rated at entry level 2 for literacy that of a 7 to 8 year old and 39 per cent had a literacy

level of an eleven year old If as the MoD states it has to recruit personnel at whatever level of attainment is available then it should boost remedial action when recruitment entry standards are particularly low In light of changes brought about by Future Force 2020 it may be that recruiting personnel with higher levels of attainment would better meet the future needs of the Armed Forces Whilst the Committee recognises that some recruits may not be eager to take further academic exams the MoD should encourage more recruits to undertake English and Maths GCSEs which would stand them in good stead for future employment The MoD has carried out some useful pilot projects with paramedic training and should identify more potential projects to ensure that vital skills paid for by the MoD are not lost to the country Great Teachers Great Britain. Parliament. House of Commons. Education Committee, 2012 Additional written evidence is contained in Volume 3 available on the Committee website at www parliament uk education committee Earth and Mind II Kim A. Kastens, Cathryn A. Manduca, 2012 Articles refer to teaching at various different levels from kindergarten to graduate school with sections on teaching geologic time space complex systems and field work Each section includes an introduction a thematic paper and Kids Count Data Book ,2012 The Complete Book of Colleges, 2013 Edition Princeton commentaries Review, 2012-08-07 Profiles every four year college in the United States providing detailed information on academic programs admissions requirements financial aid services housing athletics contact names and campus life **Qualitative Inquiry in Geoscience Education Research** Anthony D. Feig, Alison Stokes, 2011 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 Quick Reference for Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons, 2013 Counselors ,2010 An Analysis of the Situation of Children in An Giang Province ,2012 **Annual Report** West African Examinations Council, 1978 Journal for Research in Mathematics Education ,2013 Australian Education Index ,1980 Science Abstracts ,1965 The Times Index ,2008 Indexes the Times and its supplements Children's Books in Print R R Bowker Publishing, Bowker, 1999-12

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