

Name: _____

Class: _____

Date: _____

**Secondary 3 E Mathematics
WAI Mock Paper**

Topic: Quadratic and Fractional Equations

Duration: 60 mins


Solving Fractional Equations (Quadratic Formula)

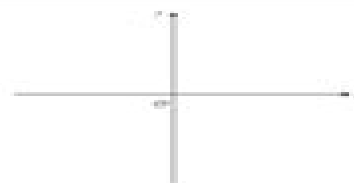
1	Solve the equation $\frac{1}{x+1} - \frac{6x^2-18}{1-x^2} = 4$.	[3]
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Solving by Completing The Square

1	(a) Express $x^2 - 3x - 8$ in the form $(x + a)^2 + b$.	[2]
	(b) Hence, solve the equation $x^2 - 3x - 8 = 0$, giving your answers correct to two decimal places.	[2]

Sketching

1	(i) Sketch the graph of $y = -(x - 1)^2 + 4$. Indicate clearly the values of the points where the graph crosses the axes and the turning point on the curve.	[3]
	(ii) Write down the equation of the line of symmetry of the graph $y = -(x - 1)^2 + 4$.	[1]
	(iii) explain why there is no intersection between the line $y = 5$ and $y = -(x - 1)^2 + 4$.	[1]
2	(a) Factorise $-x^2 + 5x + 6$. (b) Sketch the graph of $y = -x^2 + 5x + 6$, indicate clearly the x -intercepts and y -intercept. (c) Write down the equation of the line of symmetry. (d) Write down the equation of a horizontal line that intersects the graph of $y = -x^2 + 5x + 6$ at only one point.	[2] [2] [1] [1]



Maths Sec Exam Paper

**Merrilyn Goos, Colleen Vale, Gloria
Stillman, Katie Makar, Sandra
Herbert, Vince Geiger**

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Mathematics Merrilyn Goos, Colleen Vale, Gloria Stillman, Katie Makar, Sandra Herbert, Vince Geiger, 2020-07-16 Since its first publication *Teaching Secondary School Mathematics* has established itself as one of the most respected and popular texts for both pre service and in service teachers This new edition has been fully revised and updated to reflect the major changes brought about by the introduction of the Australian Curriculum Mathematics as well as discussing significant research findings the evolution of digital teaching and learning technologies and the implications of changes in education policies and practices The mathematical proficiencies that now underpin the Australian curriculum understanding fluency problem solving and reasoning are covered in depth in Part 1 and a new section is devoted to the concept of numeracy The chapter on digital tools and resources has been significantly expanded to reflect the growing use of these technologies in the classroom while the importance of assessment is recognised with new material on assessment for learning and as learning along with a consideration of policy development in this area Important research findings on common student misconceptions and new and effective approaches for teaching key mathematical skills are covered in detail As per the first edition readers will find a practical guide to pedagogical approaches and the planning and enactment of lessons together with enhanced chapters on teaching effectively for diversity managing issues of inequality and developing effective relationships with parents and the community This book is the essential pedagogical tool for every emerging teacher of secondary school mathematics The text offers an excellent resource for all of those involved in the preparation of secondary mathematics teachers with links to research literature exemplars of classroom practices and instructional activities that encourage readers to actively examine and critique practices within their own educational settings Professor Glenda Anthony Institute of Education Massey University A rich and engaging textbook that covers all of the important aspects of learning to become an effective secondary mathematics teacher The second edition of this text is further enhanced with updated references to the Australian Curriculum NAPLAN STEM current Indigenous social justice and gender inequity issues and the place of Australian mathematics curricula on the world stage Dr Christine Ormond Senior Lecturer Edith Cowan University **Math Chapterwise Solved Questions SSC CGL COMBINED GRADUATE LEVEL** Mocktime Publication, Math Chapterwise Solved Questions SSC CGL COMBINED GRADUATE LEVEL keywords ssc central police forces cpo capf ssc combined graduate level cgl combined higher secondary level exam chsl 10 2 level exam ssc ldc udc data entry operator exam ssc mts matriculation level exam ssc je civil mechanical electrical engineering exam ssc scientific assistant exam ssc english ajay kumar singh ssc english by neetu singh ssc english grammar ssc english arihant publication ssc previous year solved papers ssc general awareness ssc gk lucent ssc math rakesh yadav ssc previous year question bank ssc reasoning chapterwise solved papers ssc disha books ssc cgl questions ssc cpo questions ssc mts questions ssc chsl questions ssc ldc clerk ssc practice sets

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