

Quadratic Formula

(i) Derivation of quadratic formula by using completing square method.

The quadratic of equation in standard form is,

$$ax^2 + bx + c = 0, \quad a \neq 0$$

Dividing each term of the equation by a, we get

$$\frac{ax^2}{a} + \frac{bx}{a} + \frac{c}{a} = 0$$

$$x^2 + \frac{bx}{a} + \frac{c}{a} = 0 \Rightarrow x^2 + \frac{b}{a}x = -\frac{c}{a}$$

By completing square

$$(x)^2 + 2(x)\left(\frac{b}{2a}\right) + \left(\frac{b}{2a}\right)^2 = \frac{-c}{a} + \left(\frac{b}{2a}\right)^2$$

$$\left(x + \frac{b}{2a}\right)^2 = \frac{-c}{a} + \frac{b^2}{4a^2}$$

$$\left(x + \frac{b}{2a}\right)^2 = \frac{-4ac + b^2}{4a^2}$$

Taking square root

$$\sqrt{\left(x + \frac{b}{2a}\right)^2} = \sqrt{\frac{-4ac + b^2}{4a^2}}$$

$$x + \frac{b}{2a} = \frac{\pm\sqrt{-4ac + b^2}}{2a}$$

$$x = \frac{\pm\sqrt{-4ac + b^2}}{2a} - \frac{b}{2a}$$

$$x = \frac{\pm\sqrt{-4ac + b^2} - b}{2a}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \text{ Ans}$$

Example 1:

$$2 + 9x = 5x^2$$

Solve:

$$5x^2 - 9x - 2 = 0$$

$$a = 5$$

$$b = -9$$

$$c = -2$$

Putting value in quadratic formula,

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-(-9) \pm \sqrt{(-9)^2 - 4(5)(-2)}}{2(5)}$$

$$x = \frac{9 \pm \sqrt{81 + 40}}{10}$$

$$x = \frac{9 \pm \sqrt{121}}{10} \Rightarrow x = \frac{9 \pm 11}{10}$$

$$x = \frac{9 + 11}{10} \quad \cdot \quad x = \frac{9 - 11}{10}$$

$$x = \frac{20}{10} \quad \cdot \quad x = \frac{-2}{10}$$

$$\boxed{x = 2} \quad \cdot \quad \boxed{x = -\frac{1}{5}}$$

$$S.S = \left\{2, -\frac{1}{5}\right\}$$

Example 2:

$$\frac{2x+1}{x+2} - \frac{x-2}{x+4} = 0$$

Solve:

$$\Rightarrow \frac{(2x+1)(x+4) - (x-2)(x+2)}{(x+2)(x+4)} = 0$$

$$\Rightarrow (2x+1)(x+4) - (x-2)(x+2) = 0$$

$$2x^2 + 8x + x + 4 - (x^2 - 4) = 0$$

$$2x^2 + 8x + x + 4 - x^2 + 4 = 0$$

$$x^2 + 9x + 8 = 0$$

$$a = 1$$

$$b = 9$$

$$c = 8$$

Using quadratic formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-9 \pm \sqrt{9^2 - 4(1)(8)}}{2(1)}$$

$$x = \frac{-9 \pm \sqrt{81 - 32}}{2}$$

$$x = \frac{-9 \pm \sqrt{49}}{2} \Rightarrow x = \frac{-9 \pm 7}{2}$$

$$x = \frac{-9 + 7}{2} \quad \cdot \quad x = \frac{-9 - 7}{2}$$

$$x = \frac{-2}{2} \quad \cdot \quad x = \frac{-16}{2}$$

Matric Maths Paper 2

J Ma



Matric Maths Paper 2:

The Schoolmasters' Yearbook & Educational Directory ,1915 **The Schoolmasters Yearbook and Directory** ,1908 **The Schoolmasters Yearbook and Directory ...** ,1906 **Marking Matric** Vijay Reddy,2006

The past ten years in South Africa has seen many changes in education the creation of a single department of education common examinations for all learners in public schools in the country a new outcomes based education curriculum which was introduced to learners in the general education and training phase since 1998 and will be introduced to the further education and training phase from 2006 To evaluate the success of these changes South African researchers still use the indicator of student achievement The matriculation examination is the visible high profile and public performance indicator Every year parents learners teachers researchers government officials policymakers and the general public get involved in the debate around the matric examination with the most frequently asked questions being Did the pass rate go up Are standards dropping Are the results real or have they been manipulated How is our education system doing Are we meeting the development goals What should the matriculation examination of the future look like participants from government national and provincial

Indian Armed Forces Bharat Verma, GM Hiranandani and BK Pandey, India s Armed Forces comprise the world s second largest Army the fourth largest Air Force the eighth largest Navy and the largest Coast Guard in the northern Indian Ocean In their respective domains these four Services are entrusted with the security of the air space above India of more than 14 000 kilometres of land borders 7 500 kilometres of coastline 156 000 kilometres of shore line and an Exclusive Economic Zone of two million square kilometres In its sixty year post colonial history India s Army Navy and Air Force have fought five wars one against China and four against Pakistan Every year these Armed Services provide succour to thousands of people when rivers overflow their banks when cyclones devastate coastal districts and when occasional tsunamis and earthquakes maroon hundreds of thousands of people Overseas India has been a leading contributor to the United Nations Peace Keeping Missions The Indian Army operates in extremes of terrain and climate In the glacial terrain on the northern Himalayan borders in Siachen in the high altitude terrain in Ladakh Sikkim and Arunachal Pradesh and in the mountainous terrain in Jammu Kashmir In the riverine plains of the Punjab and Bengal In the desert of Rajasthan and In the salty marshes of Kachch Gujarat and Bengal It is widely respected as an experienced Army that has been coping with insurgencies for sixty years and for the last thirty years in combating the Islamic Terrorism that has now spread across the world The Indian peninsula straddles the Sea Lanes of Communication SLOCs across the northern Indian Ocean With the strategic reach of its air arm the Navy jointly with the Coast Guard safeguards India s as well as the region s maritime interests The Air Force s well equipped air squadrons together with its capabilities of in flight refuelling and sizeable airlift bestow deterrent strategic reach All four services exercise jointly and singly with friendly regional and international counterparts to erect bridges of friendship and strengthen inter operability as each of them transforms to cope with the 21st century Regional peace and

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Table of Contents Matric Maths Paper 2

1. Understanding the eBook Matric Maths Paper 2
 - The Rise of Digital Reading Matric Maths Paper 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Matric Maths Paper 2
 - 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 Matric Maths Paper 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matric Maths Paper 2
 - Personalized Recommendations
 - Matric Maths Paper 2 User Reviews and Ratings
 - Matric Maths Paper 2 and Bestseller Lists
5. Accessing Matric Maths Paper 2 Free and Paid eBooks
 - Matric Maths Paper 2 Public Domain eBooks
 - Matric Maths Paper 2 eBook Subscription Services

- Matric Maths Paper 2 Budget-Friendly Options
- 6. Navigating Matric Maths Paper 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Matric Maths Paper 2 Compatibility with Devices
 - Matric Maths Paper 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matric Maths Paper 2
 - Highlighting and Note-Taking Matric Maths Paper 2
 - Interactive Elements Matric Maths Paper 2
- 8. Staying Engaged with Matric Maths Paper 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matric Maths Paper 2
- 9. Balancing eBooks and Physical Books Matric Maths Paper 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matric Maths Paper 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Matric Maths Paper 2
 - Setting Reading Goals Matric Maths Paper 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matric Maths Paper 2
 - Fact-Checking eBook Content of Matric Maths Paper 2
 - 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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