

$$\frac{x}{a} + \frac{b^2}{4a} = \text{_____} \quad (\text{make both fractions have the same denominator})$$

$$= \text{_____} \quad (\text{combine to form a single fraction})$$

2.5 Does the completed look familiar? If yes, what is it called? (1)

2.6 Fill in the gap for the area of our new grey rectangle. (1)

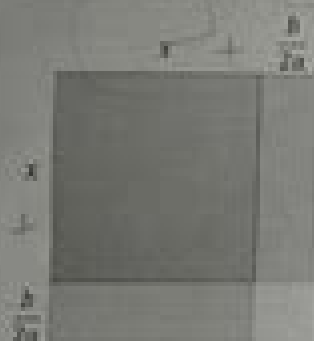


Figure 1: New Square & Rects

=

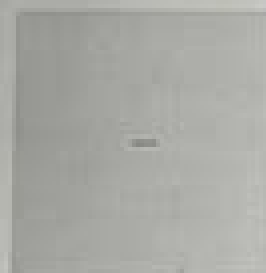


Figure 2: Old

Equation 2: Quadratic 2

$$\text{And hence, } \left(x + \frac{b}{2a}\right)^2 = \text{_____} \quad (2)$$

From here let's rearrange algebraically. (1)

a) Take the square roots of both sides, don't forget to indicate there are two answers

$$b) \text{ Simplify the fraction by recalling } \sqrt{\frac{c}{d}} = \frac{\sqrt{c}}{\sqrt{d}}$$

a) Isolate the x on the left by moving the other terms to the right

b) Write the right hand side as a single fraction

If you have followed the steps correctly you have established quadratic formula, i.e. for a quadratic equation of the form  $ax^2 + bx + c = 0$ , solutions are

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (3)$$

Further questions to ponder:

1. Who was the first person to establish this formula and when? (2)

2. Are there other ways to establish the formula? (2)

SECTION C: SIGNIFICANCE OF THE QUADRATIC FORMULA (8)

The quadratic formula defines the points  $(x, y)$  on the parabolic graph, where the parabola

$y = ax^2 + bx + c$  crosses the  $x$ -axis and it can be separated into two terms,

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

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

The first term  $-\frac{b}{2a}$  describes the (1) \_\_\_\_\_, the line  $x = -\frac{b}{2a}$ . The second term

$\frac{\sqrt{b^2 - 4ac}}{2a}$ , gives the (2) \_\_\_\_\_, the roots are away from the axis of symmetry.

If the parabola's vertex is on the  $x$ -axis, then the corresponding equation has a single repeated root on the line of symmetry, and this distance term is zero, algebraically,

the (3) \_\_\_\_\_ commonly known as  $b^2 - 4ac = 0$ . (1)

GRAND TOTAL: 100 MARKS

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**Ian Pickup**



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## **Table of Contents Mathematics Memorandum Limpopodoe November 2014**

1. Understanding the eBook Mathematics Memorandum Limpopodoe November 2014
  - The Rise of Digital Reading Mathematics Memorandum Limpopodoe November 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Memorandum Limpopodoe November 2014
  - 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 Mathematics Memorandum Limpopodoe November 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Memorandum Limpopodoe November 2014
  - Personalized Recommendations
  - Mathematics Memorandum Limpopodoe November 2014 User Reviews and Ratings
  - Mathematics Memorandum Limpopodoe November 2014 and Bestseller Lists
5. Accessing Mathematics Memorandum Limpopodoe November 2014 Free and Paid eBooks
  - Mathematics Memorandum Limpopodoe November 2014 Public Domain eBooks
  - Mathematics Memorandum Limpopodoe November 2014 eBook Subscription Services
  - Mathematics Memorandum Limpopodoe November 2014 Budget-Friendly Options
6. Navigating Mathematics Memorandum Limpopodoe November 2014 eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematics Memorandum Limpopodoe November 2014 Compatibility with Devices
  - Mathematics Memorandum Limpopodoe November 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematics Memorandum Limpopodoe November 2014
  - Highlighting and Note-Taking Mathematics Memorandum Limpopodoe November 2014
  - Interactive Elements Mathematics Memorandum Limpopodoe November 2014
8. Staying Engaged with Mathematics Memorandum Limpopodoe November 2014

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Mathematics Memorandum Limpopodoe November 2014
- 9. Balancing eBooks and Physical Books Mathematics Memorandum Limpopodoe November 2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematics Memorandum Limpopodoe November 2014
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Memorandum Limpopodoe November 2014
  - Setting Reading Goals Mathematics Memorandum Limpopodoe November 2014
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Memorandum Limpopodoe November 2014
  - Fact-Checking eBook Content of Mathematics Memorandum Limpopodoe November 2014
  - 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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