

## MATHEMATICS GRADE 11 NOTES

### EXAMPLES:

#### Example 1

$$(x-3)(x+5) = 9$$

$$x^2 + 5x - 3x - 15 - 9 = 0$$

$$x^2 + 2x - 24 = 0$$

$$(x+6)(x-4) = 0$$

$$x = -6 \text{ or } x = 4$$

#### Example 2

Solve for  $x$ :

$$\sqrt{x-2} + x = 4$$

$$\sqrt{x-2} = 4 - x$$

$$x-2 = (4-x)^2$$

$$x-2 = 16 - 8x + x^2$$

$$x^2 - 8x + 16 - x + 2 = 0$$

$$x^2 - 9x + 18 = 0$$

$$(x-3)(x-6) = 0$$

$$x = 3 \quad \text{or} \quad x = 6$$

after checking both solutions

$x = 3$  is the only solution

#### Example 3

Solve for  $x$ :

$$15x - 4 > 9x^2$$

$$15x - 4 - 9x^2 > 0$$

$$9x^2 - 15x + 4 < 0$$

$$(3x-1)(3x-4) < 0$$



$$\frac{1}{3} < x < \frac{4}{3}$$

# Mathematics Grade 12 Exam Guidelines

**Yi-Tong Ma**



## **Mathematics Grade 12 Exam Guidelines:**

## Unveiling the Magic of Words: A Review of "**Mathematics Grade 12 Exam Guidelines**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Mathematics Grade 12 Exam Guidelines**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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