03 Quadratic Functions

General Form

$$f(x) = ax^2 + bx + c$$

where a, b, and c are constants and $a \neq 0$.

*Note that the highest power of an unknown of a quadratic function is **2**.

$a > 0 \implies$ minimum $\implies \cup$ (smiling face)

$a < 0 \implies$ maximum $\implies \cap$ (sad face)

Completing the square:

$$f(x) = a(x + p)^2 + q$$

(i) the value of x, $\boxed{x = -p}$
(ii) min./max. value $= q$
(iii) min./max. point $= (-p, q)$
(iv) equation of axis of symmetry, $\boxed{x = -p}$

Alternative method:

$$f(x) = ax^2 + bx + c$$

(i) the value of x, $\boxed{x = -\dfrac{b}{2a}}$

(ii) min./max. value $= f\left(-\dfrac{b}{2a}\right)$

(iii) equation of axis of symmetry, $\boxed{x = -\dfrac{b}{2a}}$

Quadratic Inequalities

$a > 0$ and $f(x) > 0$

$a > 0$ and $f(x) < 0$

$x < a$ or $x > b$

$a < x < b$

Nature of Roots

$b^2 - 4ac > 0 \iff$ intersects two different points at x-axis

$b^2 - 4ac = 0 \iff$ touch one point at x-axis

$b^2 - 4ac < 0 \iff$ does not meet x-axis

04 Simultaneous Equations

To find the intersection point $\implies$ solves simultaneous equation.

Remember: substitute linear equation into non-linear equation.

Add Maths Form 4 Chapter 1 Notes Markdesk

A Gutmann

Add Maths Form 4 Chapter 1 Notes Markdesk:

This book delves into Add Maths Form 4 Chapter 1 Notes Markdesk. Add Maths Form 4 Chapter 1 Notes Markdesk is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Add Maths Form 4 Chapter 1 Notes Markdesk, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

   - Chapter 1: Introduction to Add Maths Form 4 Chapter 1 Notes Markdesk
   - Chapter 2: Essential Elements of Add Maths Form 4 Chapter 1 Notes Markdesk
   - Chapter 3: Add Maths Form 4 Chapter 1 Notes Markdesk in Everyday Life
   - Chapter 4: Add Maths Form 4 Chapter 1 Notes Markdesk in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Add Maths Form 4 Chapter 1 Notes Markdesk. The first chapter will explore what Add Maths Form 4 Chapter 1 Notes Markdesk is, why Add Maths Form 4 Chapter 1 Notes Markdesk is vital, and how to effectively learn about Add Maths Form 4 Chapter 1 Notes Markdesk.
3. In chapter 2, the author will delve into the foundational concepts of Add Maths Form 4 Chapter 1 Notes Markdesk. The second chapter will elucidate the essential principles that must be understood to grasp Add Maths Form 4 Chapter 1 Notes Markdesk in its entirety.
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