



6

QUADRATIC EQUATIONS

In this lesson, you will study about quadratic equations. You will learn to identify quadratic equations from a collection of given equations and write them in standard form. You will also learn to solve quadratic equations and translate and solve word problems using quadratic equations.



OBJECTIVES

After studying this lesson, you will be able to

- identify a quadratic equation from a given collection of equations;
- write quadratic equations in standard form;
- solve quadratic equations by (i) factorization and (ii) using the quadratic formula;
- solve word problems using quadratic equations.

EXPECTED BACKGROUND KNOWLEDGE

- Polynomials
- Zeros of a polynomial
- Linear equations and their solutions
- Factorisation of a polynomial

6.1 QUADRATIC EQUATIONS

You are already familiar with a polynomial of degree two. A polynomial of degree two is called a quadratic polynomial. When a quadratic polynomial is equated to zero, it is called a **quadratic equation**. In this lesson, you will learn about quadratic equations in one variable only. Let us consider some examples to identify a quadratic equation from a collection of equations.

Algebra Ii Notes Chapter 6 Quadratic Functions And

Meg Clemens, Glenn Clemens



Algebra Ii Notes Chapter 6 Quadratic Functions And:

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