

# Chapter 2 Polynomial and Rational Functions

## 2.1 Quadratic Functions

### Definition of a polynomial function

Let  $n$  be a nonnegative integer so  $n = \{0, 1, 2, 3, \dots\}$

Let  $a_n, a_{n-1}, \dots, a_2, a_1, a_0$  be real numbers with  $a_n \neq 0$

The function given by

$$f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_2 x^2 + a_1 x + a_0$$

Is called a polynomial function of  $x$  with degree  $n$

**Example:**  $f(x) = 3x^4 + 2x^2 + x - 1$

This is a 4<sup>th</sup> degree polynomial

# Polynomial And Rational Functions

**S Marginson**



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