

# Grade 12 Advanced Functions — Study Notes

## 1. Key Concepts

- Understand the behavior of polynomial, rational, exponential, logarithmic, and trigonometric functions.
- Use transformations to analyze and sketch graphs.
- Determine domain, range, intercepts, asymptotes, and end behavior.
- Use factoring, synthetic division, and sign analysis to solve equations and inequalities.

## 2. Polynomial Functions

A polynomial function has the general form  $f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$ . The degree determines the shape and end behavior of the graph.

**Factoring Methods:** Common factoring, grouping, trinomial factoring, difference of squares, synthetic division.

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

## 3. Rational Functions

A rational function is a ratio of two polynomials:  $R(x) = P(x)/Q(x)$ . Important features include vertical asymptotes ( $Q(x) = 0$ ), horizontal or oblique asymptotes (based on degree), and domain restrictions.

**Example:**  $R(x) = (x^2 - 1)/(x^2 - x) \rightarrow$  factor and cancel  $\rightarrow (x + 1)/x, x \neq 0, 1$ .

## 4. Solving Inequalities

To solve polynomial or rational inequalities: 1) Move everything to one side, 2) Factor the expression, 3) Identify critical values (zeros and asymptotes), 4) Test the sign in each interval, 5) Build the solution set.

**Example:** Solve  $-2(x - 1)(2x + 5)(x - 7) > 0 \rightarrow$  solution:  $(-\infty, -2.5) \cup (1, 7)$ .

## 5. Function Transformations

For  $f(x)$ :

- $a \cdot f(x) \rightarrow$  vertical stretch/shrink ( $a > 1$  stretch,  $0 < a < 1$  shrink).
- $f(x) + k \rightarrow$  vertical shift up ( $k > 0$ ) or down ( $k < 0$ ).
- $f(x - h) \rightarrow$  horizontal shift right ( $h > 0$ ) or left ( $h < 0$ ).
- $-f(x) \rightarrow$  reflection across x-axis;  $f(-x) \rightarrow$  reflection across y-axis.

## 6. Exponential & Logarithmic Functions

Exponential functions have the form  $f(x) = a \cdot b^{kx}$ . Logarithmic functions are the inverse:  $f(x) = \log_b(x)$ .

Key properties: domain/range, asymptotes, and transformations. Use logarithmic laws to simplify expressions and solve equations.

# Grade 12 Advanced Functions Study Guide

**Huangqi Zhang**



## **Grade 12 Advanced Functions Study Guide:**

## **Grade 12 Advanced Functions Study Guide** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Grade 12 Advanced Functions Study Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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