

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.

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Christian G. Meyer



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