

AP Precalculus Cheat Sheet

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Unit 1: Polynomial and Rational Functions

- **Function:**

- A single output for every input.
- Rate of change from a to b: $\frac{f(b) - f(a)}{b - a}$

- **Polynomial Functions:** Represented by sums of terms with variables raised to powers, e.g.,

$$f(x) = 2x^4 - 2x^3 + x^2 - 4x + 1.$$

- **Degree:** Highest power of x (e.g., degree 4 for x^4).
- **Constant Polynomial:** Degree 0, e.g., $f(x) = 2$.
- **Finding Zeros:** Use factorization, such as $f(x) = (x - 1)(x - 2)(2x - 8)$.

- **Rational Functions:**

- Ratio of two polynomial functions, e.g., $f(x) = \frac{1}{x - 3}$
- **End Behavior:** Asymptotic behavior determined by the highest degree of the numerator and denominator.
- **Zeros:** Set numerator equal to zero.

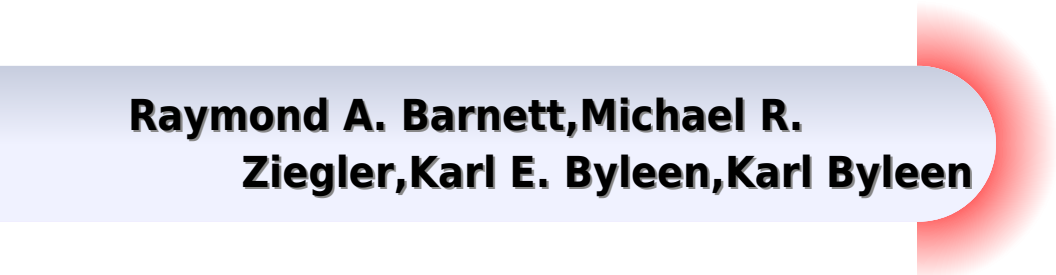
- **Transformations:**

- Shifts and stretches/compressions.
- Horizontal shift: $f(x) = (x - 3)^2$ (shifts right by 3 units).
- Vertical stretch: $f(x) = 2x^2$

Additional Notes:

Precalculus Unit 8 Lesson 1 Finding Asymptotes

**Raymond A. Barnett, Michael R.
Ziegler, Karl E. Byleen, Karl Byleen**



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