

# Jamboard Example

## Unit 1 Content Discussion

Take 10 minutes and look thoroughly through Unit 1, pages 31-50 (pdf pages 39-58), in the AP Precalculus CED. Are there any surprises, additions, or omissions you notice when thinking about your current Precalculus course?

### Surprises

It seems like some Algebra 2 concepts (zeros of a function, multiplicity, etc) are being explored - seems to assume students are not getting these in A2?

**Limit Notation**

"Global" max/min. I'm used to "absolute" max/min. Different terminology...

Frequency of sinusoidal functions was not in my last book (reciprocal of period).

"Input/output vocabulary is necessary."

Using limit notation to describe the end behavior of a polynomial function

The phrase "dominates the polynomial" is an idea we've used, but new terminology

### Additions

Using Dilation instead of Stretch or compression

Frequency of sinusoidal functions was not in my last book (reciprocal of period).

Just the wording of input and output--will have to use more

calculus terms like "point of inflection" and "concavity" are being used

**Concavity**

Use of real-world data sets instead of only "math book" type problems

Relating "rate of change" to concavity.

Regressions of a variety of function types

We haven't been talking about average rate of change in precal

While we have always called it "pre" calculus, the strong theme of rate of change on topics seems to make the course more conducive to preparing for Calculus

Rational function end behavior & asymptotes

### Omissions

**Domain and Range (See Topic 1.12 for domain and range)**

**Operations with Rational Functions**

**Synthetic Division**

**Domain and Range**

Polynomial long division is relied upon over synthetic division. PLD has its uses, but most of our divisors will be linear.

Inverse functions are usually a unit 1 topic for my precalculus classes in the past

**Domain and Range (See Topics 1.1, 1.12 for domain and range)**