

AP Calculus Summer Assignment – Reviewing Pre-Calculus Skills

Complete to 80%

Updated 7/25/2023

(Follow the name... sometimes the numbers change.)

Pre-Calculus IXL

A. Functions

- 1. Domain and Range
- 11. Composition of Functions *(Must reset back to 0 first.)*
- 12. Identify inverse functions

B. Families of functions

- 1 Function transformation rules
- 2 Translations of functions

C. Quadratic functions

- 2. Characteristics of a quadratic function
- 6. Solve a quadratic equation by factoring

F. Exponential and logarithmic functions

- 1 Domain and range of exponential and logarithmic functions *(Must reset back to 0 first.)*
- 2 Match exponential functions and graphs
- 5 Evaluate logarithms
- 6 Change of base formula
- 7 Product property of logarithms
- 8 Quotient property of logarithms
- 9 Power property of logarithms
- 11 Evaluate logarithms using properties
- 12 Graph logarithmic functions

M. Trigonometric functions

- 3 Quadrant
- 5 Find trigonometric ratios using right triangles
- 6 Find trigonometric ratios using the unit circle
- 8 Find trigonometric ratios using reference angles

Calculus IXL

A. Introduction to Limits

- 3 Determine if a limit exists