

# AP Calculus Summer Assignment

## Calculus IXL

### A. Functions

- 2 Add, subtract, multiply, and divide functions
- 3 Composition of functions
- 4 Identify inverse functions

### B. Families of functions

- 1 Function transformation rules
- 2 Translations of functions
- 3 Reflections of functions
- 6 Describe function transformations

### C. Trigonometric functions

- 1 Convert between radians and degrees
- 2 Quadrants
- 3 Coterminal and reference angles
- 4 Find trigonometric ratios using right triangles
- 5 Find trigonometric ratios using the unit circle
- 6 Find trigonometric ratios using reference angles
- 7 Inverses of trigonometric functions

### D. Exponential and logarithmic functions

- 1 Domain and range of exponential and logarithmic functions
- 2 Convert between exponential and logarithmic form
- 3 Evaluate logarithms
- 4 Change of base formula
- 5 Product property of logarithms
- 6 Quotient property of logarithms
- 7 Power property of logarithms
- 8 Evaluate logarithms using properties
- 9 Describe linear and exponential growth and decay

