Learning Goals

Understand Limits and Derivatives

		1: I can compute instantaneous rate of change by using average rates of change.
		2: I can evaluate limits of basic functions algebraically.
		3: I can evaluate limits of basic functions geometrically.
		4: I can sketch the derivative given the graph of a function.
		5: I can use first derivative to describe the monotonicity of a function.
		6: I can use second derivative to describe the concavity of a function.
		7: I can determine whether a function has a limit at a point, whether a function is continuous at a point, and whether a function is differentiable at a point.
		8: I can find the algebraic equation of the tangent line to a differentiable function at any give point in context.
		9: I can use the tangent line of a function to approximate function values in context.

Compute Derivatives

		10: I can compute derivatives of polynomials, exponential functions, and logarithmic functions.
		11: I can compute derivatives of trigonometric and anti-trigonometric functions.
		12: I can compute derivatives using the product rule.
		13: I can compute derivatives using the quotient rule.
		14: I can compute derivatives using the chain rule.
		15: I can find derivatives of inverse functions.
		16: I can find derivatives using implicit differentiation.

Apply Derivatives

		17: I can use derivatives to find local extreme values.
		18: I can use derivatives to find global extreme values.
		19: I can solve related rates problems.
		20: I can solve optimization problems.