Free, online mathematical and computational websites
- [Desmos](#)
- [GeoGebra](#)
- [WolframAlpha](#)
- [Octave Online](#)
- [Symbolab](#)

Desmos activities
- [**y** acl B](#)
- [y acl B interval](#)
- [2 acl A](#)
- [2 acl B](#)
- [Plot a sequence of real numbers](#)
- [Cauchy sequence](#)
- [Continuity (Desmos)](#)
- [Floor discontinuity](#)
- [Delta Tester – continuity](#)
- [Delta Tester – lines](#)
- [Continuity of reciprocal](#)
- [Finding c to make continuous](#)
- [sin(1/x) vs x^2sin(1/x)](#)
- [Extreme values](#)
- [Derivative and difference quotient](#)
- [Function and its derivative](#)
- [sinx and its derivative](#)
- [e^x vs ln^x and derivatives](#)
- [Antiderivative of x/2](#)
- [Area between curves](#)
- [Riemann sums – left endpoint](#)
- [Riemann sums – left/right/midpoint](#)
- [Function and its integral](#)
- [Pointwise convergence of monomials](#)
- [Pointwise convergence](#)
- [Sequence of powers of sine](#)
- [Uniform convergence](#)
- [Pointwise but not integral convergence](#)
- [Pointwise with continuous, but not integral convergence](#)
- [Bernstein polynomial](#)
- [Weierstrass Approximation Theorem](#)

GeoGebra by Juan Carlos Ponce Campuzano (JCPC)
- [Complex Analysis: A visual and interactive introduction](#)
- [JCPC's homepage on GeoGebra](#) – tons of great activities!

GeoGebra activities
- [Spiral and arbitrarily close](#)
- [Divergent sequence, two-point Slim](#)
- [Divergent sequence, plot and graph](#)
- [Limit of a sequence](#)
- [Convergent sequence, plot and graph](#)
- [Divergent sequence, complex](#)
- [Topologist's sine curve (connected, not path connected)](#)
- [Images of neighborhoods, *f*](#)
- [Images of neighborhoods, *g*](#)
- [Images of neighborhoods, *h*](#)
- [Continuity and preserving closeness](#)
- [Discontinuity and not preserving closeness](#)
- [Discontinuous and unbounded](#)
- [Continuity and limit at 0 (squeezed Topologist's…)](#)
- [Topologist's sine curve](#)
- [Continuity](#) (GeoGebra)
- [Continuous but not differentiable](#)
- [Continuity with a 2x2 matrix](#)
- [Slopes of secant and tangent lines](#)
- [Rolle's Theorem and Mean Value Theorem](#)
- [Copy of upper and lower Riemann sums](#)
- [Uniform convergence 2](#)
- [Taylor Approximation](#)
- [Taylor Polynomial Approximation of Functions](#)
- [Riemann-Integral versus Lebesgue-Integral](#)

Other Desmos activities
- The set of positive integers has measure 0
- Convergence in L^1 but not L^infinity
- Cauchy sequence of functions in sup/max metric
- Approximation by simple functions
- Someone's awesome Mandelbrot set

Old Desmos activities
- Pointwise convergence of monomials
- Sequence of powers of sine
- Uniform convergence
- Pointwise convergence
- Pointwise vs uniform convergence
- Pointwise but not uniform convergence: g_n(x) = x^n on [0,1]
- Pointwise convergence 2:
  f_n(x) = (x^2+nx)/x
- Uniform convergence 2:
- g_n(x) = 1/(n(1+x^2))
- Pointwise vs uniform convergence 2: f_n(x) = (sin x)^n   on [-2pi,2pi]
- Pointwise but not integral convergence: f_n(x) = n on (0,1/n), f_n(x) = 0 on {0}U[1/n,n]
- Pointwise with continuous seq., but unbounded limit