

Free, online mathematical and computational websites

- [Desmos](#)
- [GeoGebra](#)
- [WolframAlpha](#)
- [Octave Online](#)
- [Symbolab](#)
- [Locally linear](#)
- [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](#)
- [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^\infty\$](#)
- [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 \$\[-2\pi, 2\pi\]\$](#)
- [Pointwise but not integral convergence: \$f_n\(x\) = n\$ on \$\(0, 1/n\)\$, \$f_n\(x\) = 0\$ on \$\{0\} \cup \[1/n, n\]\$](#)
- [Pointwise with continuous seq., but unbounded limit](#)