

MathML examples

$$(\nabla_X Y)^k = X^i (\nabla_i Y)^k = X^i \left(\frac{\partial Y^k}{\partial x^i} + \Gamma_{im}^k Y^m \right)$$

$$\vec{\nabla} \times \vec{F} = \left(\frac{\partial F_z}{\partial y} - \frac{\partial F_y}{\partial z} \right) \mathbf{i} + \left(\frac{\partial F_x}{\partial z} - \frac{\partial F_z}{\partial x} \right) \mathbf{j} + \left(\frac{\partial F_y}{\partial x} - \frac{\partial F_x}{\partial y} \right) \mathbf{k}$$

Taken from <http://www.mathjax.org/demos/mathml-samples/>

$$f(a) = \oint_{\gamma} \frac{f(z)}{z-a} dz$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$