A Sample of the XCharter Font

with Charter from mathdesign as math font

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2 Sample page of mathematical typesetting

First some large operators both in text: $\iiint_{\mathcal{Q}} f(x,y,z) dx dy dz$ and $\prod_{\gamma \in \Gamma_{\widetilde{C}}} \partial(\widetilde{X}_{\gamma})$; and also on display:

$$\iiint_{Q} f(w, x, y, z) dw dx dy dz \leq \oint_{\partial Q} f'\left(\max\left\{\frac{\|w\|}{|w^{2} + x^{2}|}; \frac{\|z\|}{|y^{2} + z^{2}|}; \frac{\|w \oplus z\|}{\|x \oplus y\|}\right\}\right)$$

$$\lessapprox \biguplus_{\mathbb{Q} \in \bar{Q}} \left[f^{*}\left(\frac{\int_{\mathbb{Q}(t)} \mathbb{Q}(t)}{\sqrt{1 - t^{2}}}\right) \right]_{t=a}^{t=\vartheta}$$

$$\tag{1}$$

For x in the open interval]-1,1[the infinite sum in Equation (2) is convergent; however, this does not hold throughout the closed interval [-1,1].

$$(1-x)^{-k} = 1 + \sum_{j=1}^{\infty} (-1)^j {k \brace j} x^j \quad \text{for } k \in \mathbb{N}; \ k \neq 0.$$
 (2)

Theorem 1 (Residue Theorem). Let f be analytic in the region G except for the isolated singularities a_1, a_2, \ldots, a_m . If γ is a closed rectifiable curve in G which does not pass through any of the points a_k and if $\gamma \approx 0$ in G then

$$\frac{1}{2\pi i} \int_{\gamma} f = \sum_{k=1}^{m} n(\gamma; a_k) \operatorname{Res}(f; a_k).$$

Theorem 2 (Maximum Modulus). Let G be a bounded open set in \mathbb{C} and suppose that f is a continuous function on G^- which is analytic in G. Then

$$\max\{|f(z)|: z \in G^-\} = \max\{|f(z)|: z \in \partial G\}.$$

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