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Here are some mathematics examples using the standard word font for times new roman.  
This shall be used for comparisons as well will hope that it replicates exactly using  
TeX. I hope so.

$$(x+a)^n \equiv \sum_{k=0}^n \binom{n}{k} x^k a^{n-k}$$

$$\begin{matrix} f(x) \\ f(x) \end{matrix} = a_0 + \sum_{n=1}^{\infty} \left( a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right)$$

$$\begin{matrix} \cos \alpha + \cos \beta \\ \cos \alpha + \cos \beta \end{matrix} = 2 \cos \frac{1}{2}(\alpha + \beta) \cos \frac{1}{2}(\alpha - \beta)$$