Our math formulas, like $x^n + y^n = z^n$, and

$$\sum_{i=1}^{n} \sin x + i^{\sin x} + i^{i^{\sin x}}$$

are going to be using the MathTime Professional 2 fonts, but the text font is just Computer Modern (the letters for 'sin' are going to come from cmr10, cmr7 and cmr5).

Here are some math formulas that should all work out OK.

$$A, \dots, Z \qquad a, \dots, z \qquad \Gamma, \dots, \Omega \qquad \Gamma, \dots, \Omega \qquad \alpha, \dots, \omega$$

$$2^{A, \dots, Z} \qquad a, \dots, z \qquad \Gamma, \dots, \Omega \qquad \Gamma, \dots, \Omega \qquad \alpha, \dots, \omega$$

$$2^{2^{A, \dots, Z}} \qquad a, \dots, z \qquad \Gamma, \dots, \Omega \qquad \Gamma, \dots, \Omega \qquad \alpha, \dots, \omega$$

$$2^{2^{A, \dots, Z}} \qquad a, \dots, z \qquad \Gamma, \dots, \Omega \qquad \Gamma, \dots, \Omega \qquad \alpha, \dots, \omega$$

$$\mathbb{N}_{\alpha} \times \mathbb{N}_{\beta} = \beta \iff \alpha \leq \beta$$

$$2^{\mathbb{N}_{\alpha} \times \mathbb{N}_{\beta} = \beta} \iff \alpha \leq \beta$$

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$$2^{\mathbb$$

$$d\omega = dv + \left(\frac{\partial w}{\partial x} - \frac{\partial v}{\partial y}\right) dx \wedge dy$$

$$2^{d\omega = dv + \left(\frac{\partial w}{\partial x} - \frac{\partial v}{\partial y}\right)} dx \wedge dy$$

$$2^{2^{d\omega = dv + \left(\frac{\partial w}{\partial x} - \frac{\partial v}{\partial y}\right)} dx \wedge dy$$

$$\hat{x} + \hat{X} + \hat{x}\hat{y} + \hat{x}\hat{y}\hat{z} + \hat{A}$$

$$2^{\hat{x} + \hat{X} + \hat{x}\hat{y} + \hat{x}\hat{y}\hat{z} + \hat{A}}$$

$$2^{\hat{x} + \hat{X} + \hat{x}\hat{y} + \hat{x}\hat{y}\hat{z} + \hat{A}}$$

$$2^{\hat{x} + \hat{X} + \hat{x}\hat{y} + \hat{x}\hat{y}\hat{z} + \hat{A}}$$

$$R_{ijkl} = -R_{jikl} = -R_{ijlk} = R_{klij}$$

$$2^{R_{ijkl} = -R_{jikl} = -R_{ijlk} = R_{klij}}$$

$$2^{R_{ijkl} = -R_{jikl} = -R_{ijlk} = R_{klij}}$$

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$$(f \circ g)'(x) = f'(g(x)) \cdot g'(x)$$

$$2^{(f \circ g)'(x) = f'(g(x)) \cdot g'(x)}$$

$$2^{(f \circ g)'(x) = f'(g(x)) \cdot g'(x)}$$

$$f(x) = \begin{cases} |x| & x > a \\ -|x| & x \le a \end{cases}$$

$$f(x) = \begin{cases} |x| & x > a \\ -|x| & x \le a \end{cases}$$

$$2^{f(x) = \begin{cases} |x| & x > a \\ -|x| & x \le a \end{cases}}$$

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$$\int_{-\infty}^{\infty} e^{-x \cdot x} dx = \sqrt{\pi}$$
$$2^{\int_{-\infty}^{\infty} e^{-x \cdot x} dx = \sqrt{\pi}}$$
$$2^{2^{\int_{-\infty}^{\infty} e^{-x \cdot x} dx = \sqrt{\pi}}}$$

$$X = \sum_{i} \xi^{i} \frac{\partial}{\partial x^{i}} + \sum_{j} x^{j} \frac{\partial}{\partial \dot{x}^{j}}$$
$$2^{X = \sum_{i} \xi^{i} \frac{\partial}{\partial x^{i}} + \sum_{j} x^{j} \frac{\partial}{\partial \dot{x}^{j}}}$$
$$2^{2^{X = \sum_{i} \xi^{i} \frac{\partial}{\partial x^{i}} + \sum_{j} x^{j} \frac{\partial}{\partial \dot{x}^{j}}}}$$

Bold letters in math can be taken from the Times bold symbols:

$$A_{\mathbf{X}}(f) = \mathbf{X}(\mathbf{f}) = 2^{2^{\mathbf{X}(\mathbf{g})}}$$

We can also get 'calligraphic' letters:

$$\mathcal{A}, \mathcal{B}, \dots, \mathcal{Z}$$

Compare

 $X_f + X_j + X_p + X_t + X_y + X_A + X_B + X_D + X_H + X_I + X_K + X_L + X_M + X_P + X_X$ with the following (with no adjustments):

$$X_f + X_i + X_p + X_t + X_v + X_A + X_B + X_D + X_H + X_I + X_K + X_L + X_M + X_P + X_X$$

We have the special accent

X

and can replace

$$\dot{\varGamma} + \ddot{\varGamma}$$

with

$$\dot{\Gamma} + \ddot{\Gamma}$$

There are

and

$$\widetilde{A} + \widetilde{A} + \widetilde{A} + \widetilde{A} + \widetilde{A} + \widetilde{M} + \widetilde{M} + \widetilde{M} + \widetilde{M} + \widetilde{X}\widetilde{y} + \widetilde{x}\widetilde{y}\widetilde{z} + \widetilde{x}\widetilde{y}\widetilde{z}\widetilde{w} + x + y + z + \cdots + w$$

and

$$\check{A} + \check{A} + \check{A} + \check{A} + + \check{M} + \check{M} + \check{M} + \check{M} + \check{X}\check{y} + \check{x}\check{y}\check{z} + \check{x}\check{y}\check{z}\check{w} + \check{x} + \check{y} + \check{z} + \cdots + \check{w}$$

and

$$\bar{M} + \bar{M} + \bar{M} + \bar{x} + y + z$$

We have

$$\alpha_c^{-1} \cdot \alpha_c' = \begin{pmatrix} 0 & 0 & \dots & -\kappa_1 \\ 1 & 0 & & -\kappa_2 \\ 0 & 1 & & \vdots \\ \vdots & \vdots & & -\kappa_{n-1} \\ 0 & 0 & \dots 1 & 0 \end{pmatrix}$$

versus

$$\alpha_c^{-1} \cdot \alpha_c' = \begin{pmatrix} 0 & 0 & \dots & -\varkappa_1 \\ 1 & 0 & & -\varkappa_2 \\ 0 & 1 & & \vdots \\ \vdots & \vdots & & -\varkappa_{n-1} \\ 0 & 0 & \dots 1 & 0 \end{pmatrix}$$

Similarly, instead of having to rely on an extensible square root symbol, we can also get individually designed ones:

$$\sqrt{\sum_{i=1}^{n} (y^{i} - x^{i})^{2}} \quad \text{vs.} \quad \sqrt{\sum_{i=1}^{n} (y^{i} - x^{i})^{2}}$$