TEX + LATEX using *Times* and *txfonts*

Displayed equations:

$$\exp(x) = \sum_{i=0}^{\infty} \frac{x^i}{i!}, \qquad \Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t}\,\mathrm{d}t.$$

Inline equations: $\exp(x) = \sum_{i=0}^{\infty} x^i/i!$, $\Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t}\,\mathrm{d}t$.

Large parentheses: $\left(\begin{array}{ccc} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \end{array} \right) \left(\begin{array}{c} b_1 \\ b_2 \\ b_3 \end{array} \right) = \left(\begin{array}{c} c_1 \\ c_2 \end{array} \right)$.

An example from the AMS "testmath.tex" file:

$$\begin{aligned} f_{h,\varepsilon}(x,y) &= \varepsilon \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon u)} \varphi(x)\, du \\ &= h \int L_{x,z} \varphi(x) \rho_x(dz) \\ &\qquad + h \left[\frac{1}{t_\varepsilon} \left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)} \varphi(x)\, ds - t_\varepsilon \int L_{x,z} \varphi(x) \rho_x(dz) \right) \right. \\ &\qquad\qquad \left. + \frac{1}{t_\varepsilon} \left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)} \varphi(x)\, ds - \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon s)} \varphi(x)\, ds \right) \right] \\ &= h \widehat{L}_x \varphi(x) + h \theta_\varepsilon(x,y) \end{aligned}$$

TEX + LATEX using *Computer Modern* (default)

Displayed equations:

$$\exp(x) = \sum_{i=0}^{\infty} \frac{x^i}{i!}, \qquad \Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t}\,\mathrm{d}t.$$

Inline equations: $\exp(x) = \sum_{i=0}^{\infty} x^i/i!$, $\Gamma(z) = \int_0^{\infty} t^{z-1}e^{-t}\,\mathrm{d}t$.

Large parentheses: $\begin{pmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \end{pmatrix} \begin{pmatrix} b_1 \\ b_2 \\ b_3 \end{pmatrix} = \begin{pmatrix} c_1 \\ c_2 \end{pmatrix}$.

An example from the AMS "testmath.tex" file:

$$\begin{aligned} f_{h,\varepsilon}(x,y) &= \varepsilon \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon u)} \varphi(x)\,du \\ &= h \int L_{x,z}\varphi(x)\rho_x(dz) \\ &\quad + h\left[\frac{1}{t_\varepsilon}\left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)}\varphi(x)\,ds - t_\varepsilon \int L_{x,z}\varphi(x)\rho_x(dz)\right)\right. \\ &\qquad \left. + \frac{1}{t_\varepsilon}\left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)}\varphi(x)\,ds - \mathbf{E}_{x,y}\int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon s)}\varphi(x)\,ds\right)\right] \\ &= h\widehat{L}_x\varphi(x) + h\theta_\varepsilon(x,y) \end{aligned}$$

`groff -Tdvi` (+ dvips) using *Computer Modern* (default)

Displayed equations:

$$\exp(x) = \sum_{i=0}^{\infty} \frac{x^i}{i!}, \qquad \Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t}\,\mathrm{d}t.$$

Inline equations: $\exp(x) = \sum_{i=0}^{\infty} x^i/i!$, $\Gamma(z) = \int_0^{\infty} t^{z-1}e^{-t}\,\mathrm{d}t$.

Large parentheses: $\begin{pmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \end{pmatrix} \begin{pmatrix} b_1 \\ b_2 \\ b_3 \end{pmatrix} = \begin{pmatrix} c_1 \\ c_2 \end{pmatrix}$.

An example from the AMS "testmath.tex" file:

$$\begin{aligned} f_{h,\varepsilon}(x,y) &= \varepsilon \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon u)} \varphi(x)\, du \\ &= h \int L_{x,z} \varphi(x) \rho_x(dz) \\ &\qquad + h \biggl[\frac{1}{t_\varepsilon} \biggl(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)} \varphi(x)\, ds - t_\varepsilon \int L_{x,z} \varphi(x) \rho_x(dz) \biggr) \\ &\qquad\qquad + \frac{1}{t_\varepsilon} \biggl(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)} \varphi(x)\, ds - \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon s)} \varphi(x)\, ds \biggr) \biggr] \\ &= h \hat{L}_x \varphi(x) + h \theta_\varepsilon(x,y) \end{aligned}$$

`groff -Tps` using *Computer Modern*

Displayed equations:

$$\exp(x) = \sum_{i=0}^{\infty} \frac{x^i}{i!}\,, \qquad \Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t}\,\mathrm{d}t.$$

Inline equations: $\exp(x) = \sum_{i=0}^{\infty} x^i/i!$, $\Gamma(z) = \int_0^{\infty} t^{z-1}e^{-t}\,\mathrm{d}t$.

Large parentheses: $\begin{pmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \end{pmatrix} \begin{pmatrix} b_1 \\ b_2 \\ b_3 \end{pmatrix} = \begin{pmatrix} c_1 \\ c_2 \end{pmatrix}$.

An example from the AMS "testmath.tex" file:

$$\begin{aligned} f_{h,\varepsilon}(x,y) &= \varepsilon \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon u)} \varphi(x)\, du \\ &= h \int L_{x,z}\varphi(x)\rho_x(dz) \\ &\qquad + h\left[\frac{1}{t_\varepsilon}\left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)}\varphi(x)\, ds - t_\varepsilon \int L_{x,z}\varphi(x)\rho_x(dz)\right)\right. \\ &\qquad\qquad \left. + \frac{1}{t_\varepsilon}\left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)}\varphi(x)\, ds - \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon s)}\varphi(x)\, ds\right)\right] \\ &= h\widehat{L}_x\varphi(x) + h\theta_\varepsilon(x,y) \end{aligned}$$

`groff -Tps` using *Times* and *Symbol* (default)

Displayed equations:

$$\exp(x) = \sum_{i=0}^{\infty} \frac{x^i}{i!}, \qquad \Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t}\,\mathrm{d}t.$$

Inline equations: $\exp(x) = \sum_{i=0}^{\infty} x^i/i!$, $\Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t}\,\mathrm{d}t$.

Large parentheses: $\begin{pmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \end{pmatrix} \begin{pmatrix} b_1 \\ b_2 \\ b_3 \end{pmatrix} = \begin{pmatrix} c_1 \\ c_2 \end{pmatrix}$.

An example from the AMS "testmath.tex" file:

$$\begin{aligned} f_{h,\varepsilon}(x,y) &= \varepsilon \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon u)} \varphi(x)\,du \\ &= h \int L_{x,z} \varphi(x) \rho_x(dz) \\ &\quad + h \Bigg[\frac{1}{t_\varepsilon} \left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)} \varphi(x)\,ds - t_\varepsilon \int L_{x,z} \varphi(x) \rho_x(dz) \right) \\ &\qquad + \frac{1}{t_\varepsilon} \left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)} \varphi(x)\,ds - \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon s)} \varphi(x)\,ds \right) \Bigg] \\ &= h \hat{L}_x \varphi(x) + h \theta_\varepsilon(x,y) \end{aligned}$$

groff -Tps using *Souvenir* and *Symbol*

("hacked" version with "hand-drawn" large parentheses and brackets)

Displayed equations:

$$\exp(x) = \sum_{i=0}^{\infty} \frac{x^i}{i!}, \qquad \Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t}\,\mathrm{d}t.$$

Inline equations: $\exp(x) = \sum_{i=0}^{\infty} x^i/i!$, $\Gamma(z) = \int_0^{\infty} t^{z-1}e^{-t}\,\mathrm{d}t$.

Large parentheses: $\begin{pmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \end{pmatrix} \begin{pmatrix} b_1 \\ b_2 \\ b_3 \end{pmatrix} = \begin{pmatrix} c_1 \\ c_2 \end{pmatrix}$.

An example from the AMS "testmath.tex" file:

$$\begin{aligned} f_{h,\varepsilon}(x,y) &= \varepsilon \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon u)} \varphi(x)\, du \\ &= h \int L_{x,z} \varphi(x) \rho_x(dz) \\ &\quad + h \left[\frac{1}{t_\varepsilon} \left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)} \varphi(x)\, ds - t_\varepsilon \int L_{x,z} \varphi(x) \rho_x(dz) \right) \right. \\ &\quad \left. + \frac{1}{t_\varepsilon} \left(\mathbf{E}_y \int_0^{t_\varepsilon} L_{x,y^x(s)} \varphi(x)\, ds - \mathbf{E}_{x,y} \int_0^{t_\varepsilon} L_{x,y_\varepsilon(\varepsilon s)} \varphi(x)\, ds \right) \right] \\ &= h \hat{L}_x \varphi(x) + h \theta_\varepsilon(x,y) \end{aligned}$$