Glossary

February 26, 2019

```
In [2]: from IPython.display import Latex
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```
In [3]: Latex(r'$f(x)=3x+7$')
```

Out[3]:
$$f(x) = 3x + 7$$

```
In [4]: Latex(r'$\sum_{i=1}^na_i$')
```

Out[4]:
$$\sum_{i=1}^n a_i$$

```
In [7]: Latex(r'$f(x)=x^{x^x}$')
```

Out[7]:
$$f(x) = x^{x^x}$$

```
In [8]: Latex(r'$\Gamma$')
```

Out[8]:
$$\Gamma$$

```
In [9]: Latex(r'$\Delta$')
```

Out[9]:
$$\Delta$$

```
In [10]: Latex(r'$\Lambda$')
```

Out[10]:
$$\Lambda$$

```
In [11]: Latex(r'$\Xi$')
```

Out[11]:
$$\Xi$$

```
In [12]: Latex(r'$\Pi$')
```

```
Out[12]:
    Π

In [13]: Latex(r'$\Sigma$')

Out[13]:
    Σ

In [14]: Latex(r'$\Upsilon$')

Out[14]:
    Υ

In [15]: Latex(r'$\Phi$')

Out[15]:
    Φ

In [16]: Latex(r'$\Psi$')

Out[16]:
    Ψ

In [17]: Latex(r'$\Omega$')

Out[17]:
    Ω

In [18]: Latex(r'$\alpha$')

Out[18]:
    α

In [19]: Latex(r'$\beta$')

Out[19]:
    β

In [20]: Latex(r'$\gamma$')

Out[20]:
    γ

In [21]: Latex(r'$\delta$')

Out[21]:
    δ

In [22]: Latex(r'$\epsilon$')
```

```
Out[22]:
    ϵ

In [23]: Latex(r'$\varepsilon$')

Out[23]:
    ε

In [25]: Latex(r'$\zeta$')

Out[25]:
    ζ

In [26]: Latex(r'$\eta$')

Out[26]:
    η

In [27]: Latex(r'$\bigvee$')

Out[27]:
    ⋁

In [28]: Latex(r'$\bigwedge$')

Out[28]:
    ⋀

In [29]: Latex(r'$\bigoplus$')

Out[29]:
    ⨁

In [30]: Latex(r'$\bigotimes$')

Out[30]:
    ⨂

In [31]: Latex(r'$\bigodot$')

Out[31]:
    ⨀

In [32]: Latex(r'$\biguplus$')

Out[32]:
    ⨄

In [33]: Latex(r'$\leftarrow$')
```

Out[33]:
  $\leftarrow$

In [34]: Latex(r'$\rightarrow$')

Out[34]:
  $\rightarrow$

In [35]: Latex(r'$\Leftarrow$')

Out[35]:
  $\Leftarrow$

In [36]: Latex(r'$\Rightarrow$')

Out[36]:
  $\Rightarrow$

In [37]: Latex(r'$\uparrow$')

Out[37]:
  $\uparrow$

In [38]: Latex(r'$\downarrow$')

Out[38]:
  $\downarrow$

In [39]: Latex(r'$\iff$')

Out[39]:
  $\iff$

In [40]: Latex(r'$\rightleftharpoons$')

Out[40]:
  $\rightleftharpoons$

In [41]: Latex(r'$\nearrow$')

Out[41]:
  $\nearrow$

In [42]: Latex(r'$\searrow$')

Out[42]:
  $\searrow$

In [43]: Latex(r'$\swarrow$')

Out[43]:

↙

In [44]: Latex(r'$\nwarrow$')

Out[44]:

↖

In [45]: Latex(r'$\leadsto$')

Out[45]:

⤳

In [47]: Latex(r'$\frac{7x+5}{1+y^2}\sqrt{x^2+y^2}\sqrt[n]{x^n+y^n}$')

Out[47]:

$\frac{7x+5}{1+y^2}\sqrt{x^2+y^2}\sqrt[n]{x^n+y^n}$

In [62]: Latex(r'$f(x_1,x_2,\ldots,x_n)=x_1^2+x_2^2+\cdots+x_n^2$')

Out[62]:

$f(x_1,x_2,\ldots,x_n) = x_1^2 + x_2^2 + \cdots + x_n^2$

In [64]: Latex(r'$f(x,y,z)=3y^2z(3+\frac{7x+5}{1+y^2})$')

Out[64]:

$f(x,y,z) = 3y^2z(3 + \frac{7x+5}{1+y^2})$

In [68]: Latex(r'$\left. \frac{du}{dx} \right|_{x=0}.$')

Out[68]:

$\left. \frac{du}{dx} \right|_{x=0}.$

In [69]: Latex(r'''
                \begin{eqnarray*}
                \cos{2\theta}&=\cos^2\theta - \sin^2\theta \\
                &=2\cos^2\theta - 1 \\
                \end{eqnarray*}
                ''')

Out[69]:

$$
\begin{eqnarray*}
\cos 2\theta &= \cos^2\theta - \sin^2\theta \\
&= 2\cos^2\theta - 1
\end{eqnarray*}
$$

```
In [73]: Latex(r'''
             $\frac{\partial u}{\partial t}
             =h^2(\frac{\partial^2 u}{\partial x^2}
             +\frac{\partial^2 u}{\partial y^2}
             +\frac{\partial^2 u}{\partial z^2})$
         ''')
```

Out[73]:
$$\frac{\partial u}{\partial t} = h^2\left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2}\right)$$

```
In [74]: Latex(r'$\lim_{x \to \infty}$')
```

Out[74]:
$$\lim_{x\to\infty}$$

```
In [75]: Latex(r'$\int_a^b f(x)dx$')
```

Out[75]:
$$\int_a^b f(x)dx$$

```
In [76]: Latex(r'''
             \usepackage{amssymb}
             \angle
         ''')
```

Out[76]:
amssymb $\angle$

```
In [ ]:
```