

```

<math>
<apply><partialdiff/>
<list><cn>1</cn><cn>1</cn><cn>3</cn></list>
<ci type="fn">f</ci>
</apply>
</math>

```

$$D_{1,1,3}f$$

```

<math>
<apply>
  <partialdiff/>
  <bvar><ci>x</ci><degree><cn>n</cn></degree></bvar>
  <bvar><ci>y</ci><degree><cn>m</cn></degree></bvar>
  <apply>
    <sin/>
    <apply><times/><ci>x</ci><ci>y</ci></apply>
  </apply>
</apply>
</math>

```

$$\frac{\partial^{n+m}}{\partial x^n \partial y^m} \sin(xy)$$

```

<math>
<lambda>
  <bvar><ci>x</ci></bvar>
  <apply>
    <sum/>
    <bvar><ci>x</ci></bvar>
    <lowlimit> <ci>a</ci> </lowlimit>
    <uplimit> <ci>b</ci> </uplimit>
    <apply><fn><ci>f</ci></fn><ci>x</ci></apply>
  </apply>
</lambda>
</math>

```

$$\lambda(x, x \sum_a^b f x)$$

```

<math>
  <matrix>
    <matrixrow> <cn>0</cn> <cn>0</cn> <cn>0</cn> <cn>0</cn> </matrixrow>
    <matrixrow> <cn>0</cn> <cn>0</cn> <cn>0</cn> <cn>0</cn> </matrixrow>
    <matrixrow> <cn>0</cn> <cn>0</cn> <cn>0</cn> <cn>0</cn> </matrixrow>
  </matrix>
</math>

```

$$\begin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix}$$

```

<math>
  <apply>
    <log/>
    <logbase><ci>3</ci></logbase>
    <ci>x</ci>
  </apply>
</math>

```

$$\log_3 x$$

```

<math>
  <apply>
    <limit/>
    <bvar><ci>x</ci></bvar>
    <lowlimit> <ci>a</ci> </lowlimit>
    <apply><sin/><ci>x</ci></apply>
  </apply>
</math>

```

$$\lim_{x \rightarrow a} \sin x$$

```

<math>
  <apply>
    <limit/>
    <bvar> <ci>x</ci> </bvar>
    <condition>
      <apply><tendsto type="above"/><ci>x</ci><ci>a</ci></apply>

```

```

    </condition>
    <apply><sin/><ci>x</ci></apply>
  </apply>
</math>

```

$$\lim_{x \downarrow a} \sin x$$

```

<math>
  <apply>
    <sum/>
    <bvar><ci>x</ci></bvar>
    <lowlimit> <ci>a</ci> </lowlimit>
    <uplimit>  <ci>b</ci> </uplimit>
    <apply><fn><ci>f</ci></fn><ci>x</ci></apply>
  </apply>
</math>

```

$$\sum_{x=a}^b f x$$

```

<math>
  <apply>
    <sum/>
    <bvar> <ci>x</ci> </bvar>
    <condition>
      <apply><in/><ci>x</ci><ci>D</ci></apply>
    </condition>
    <apply>
      <fn><ci>f</ci></fn>
      <ci>x</ci>
    </apply>
  </apply>
</math>

```

$$\sum_{x \in D} f x$$

```

<math>
  <apply>
    <diff/>

```

```

    <bvar><ci>x</ci></bvar>
    <apply><fn><ci>f</ci></fn><ci>x</ci></apply>
  </apply>
</math>

```

$$\frac{dfx}{dx}$$

```

<math>
  <apply>
    <int/>
    <bvar> <ci>x</ci> </bvar>
    <lowlimit> <ci>a</ci> </lowlimit>
    <uplimit> <ci>b</ci> </uplimit>
    <apply>
      <fn><ci>f</ci></fn>
      <ci>x</ci>
    </apply>
  </apply>
</math>

```

$$\int_a^b dx$$

```

<math>
  <apply>
    <int/>
    <bvar> <ci>x</ci> </bvar>
    <condition>
      <apply><in/><ci>x</ci><ci>D</ci></apply>
    </condition>
    <apply>
      <fn><ci>f</ci></fn>
      <ci>x</ci>
    </apply>
  </apply>
</math>

```

$$\int_{x \in D} dx$$

<math> <apply> <plus/> <ci> \pi; </ci> </apply> </math>

+ π

<math> <apply> <minus/> <ci> 3 </ci> </apply> </math>

−3

<math>
 <apply> <root/>
 <cn> 3 </cn>
 <apply> <times/>
 <apply> <plus/> <ci> a </ci> <ci> b </ci> </apply>
 <apply> <minus/> <ci> c </ci> <ci> d </ci> </apply>
 </apply>
 </apply>
 </math>

$\sqrt[3]{(a+b)(c-d)}$

<math>
 <apply> <eq/>
 <apply> <power/> <ci> a </ci> <ci> 2 </ci> </apply>
 <apply> <plus/>
 <apply> <power/> <ci> b </ci> <ci> 2 </ci> </apply>
 <apply> <power/> <ci> c </ci> <ci> 2 </ci> </apply>
 </apply>
 </apply>
 </math>

$a^2 = b^2 + c^2$