In[11]:=
```
Reduce [1 / (x – 1) > 2]
```

Out[11]=
$$1 < x < \frac{3}{2}$$

In[12]:=
```
Reduce [1 / x – 3 / (2 * (x + 1)) > 1]
```

Out[12]=
$$-2 < x < -1 \,||\, 0 < x < \frac{1}{2}$$

In[17]:=
```
Solve [Abs[2 * x – 1] + Abs[x – 2] == 6]
```

Out[17]=
$$\{\{x \to -1\}, \{x \to 3\}\}$$

In[22]:=
```
Integrate [(x (x ^ (1 / 2) – x ^ 2 * x ^ 1 / 3)) / (x ^ 1 / 4), x]
```

Out[22]=
$$4\left(\frac{2\,x^{3/2}}{3} - \frac{x^4}{12}\right)$$

In[28]:=
```
Solve [Sin[x] == Cos[x]]
```

Out[28]=
$$\left\{\left\{x \to \boxed{-\frac{3\,\pi}{4} + 2\,\pi\,c_1 \quad \text{if} \quad c_1 \in \mathbb{Z}}\right\}, \left\{x \to \boxed{\frac{\pi}{4} + 2\,\pi\,c_1 \quad \text{if} \quad c_1 \in \mathbb{Z}}\right\}\right\}$$

In[30]:=
```
Integrate [x * e ^ (x ^ 2), x]
```

Out[30]=
$$\frac{e^{x^2}}{2\,\text{Log}[e]}$$

In[32]:=
```
Integrate [Log[x] / x, x]
```

Out[32]=
$$\frac{\text{Log}[x]^2}{2}$$

In[33]:=
```
Integrate [Sin[x] / x, {x, 0, 0.8}]
```

Out[33]=
```
0.772096
```

In[36]:=
```
D[(x + 1) / (1 – x) ^ (1 / 2), x]
```

Out[36]=
$$\frac{1}{\sqrt{1-x}} + \frac{1+x}{2\,(1-x)^{3/2}}$$

In[37]:=
```
D[(x ^ 2 * (x * (x ^ 3) ^ 1 / 4) ^ 1 / 2) ^ (1 / 3), x]
```

Out[37]=
$$\frac{x^5}{\left(x^6\right)^{2/3}}$$

In[39]:=
```
Limit [(x – 3) * (–1) ^ x / (x ^ 2 – 9), x → 3]
```

Out[39]=
$$-\frac{1}{6}$$

In[41]:=
```
Limit[((1 + m * x)^(1 / 3) - 1) / x, x → 0]
```

Out[41]=
$$\frac{m}{3}$$