In [1]:

```
f1(x)=2*x^2+3*x-4
show(f1)
```

Out[1]:

$$x \mapsto 2\,x^2 + 3\,x - 4$$

In [2]:

```
show(integrate(f1(x),x))
#
# ****** WARNING *********
# CoCalc symbolic integration does not give the constant C
```

Out[2]:

$$\frac{2}{3}\,x^3 + \frac{3}{2}\,x^2 - 4\,x$$

In [3]:

```
f2(x)=2*x^3+1/x^2
show(f2)
```

Out[3]:

$$x \mapsto 2\,x^3 + \frac{1}{x^2}$$

In [4]:

```
show(integrate(f2(x),x))
#
# ****** WARNING *********
# CoCalc symbolic integration does not give the constant C
```

Out[4]:

$$\frac{1}{2}\,x^4 - \frac{1}{x}$$

In [5]:

```
f3(x)=3*x+2/x
show(f3)
```

Out[5]:

$$x \mapsto 3\,x + \frac{2}{x}$$

In [6]:

```
show(integrate(f3(x),x))
#
# ****** WARNING *********
# CoCalc integrate f'(x)/f(x) gives ln(f(x)) instead of ln(abs(f(x)))
```

Out[6]:

$$\frac{3}{2}\,x^2 + 2\,\log(x)$$

In [0]:

```

```