```
[> plot3d(4 - x^2 - y^2, x=-2..2, y=-2..2);
> int( sqrt( 1 - x^2) , x);
                                    \frac{1}{2} x \sqrt{-x^2 + 1} + \frac{1}{2} \arcsin(x)
                                                                                                               (1)
> int( exp(x^2), x );
                                           -\frac{1}{2} I \sqrt{\pi} \operatorname{erf}(Ix)
                                                                                                               (2)
> int( exp(x^2), x=0..3);
                                           -\frac{1}{2} I erf (3 I) \sqrt{\pi}
                                                                                                               (3)
> evalf( int( exp(x^2), x=0..3) );
                                              1444.545124
                                                                                                              (4)
\rightarrow diff( sqrt( tan(x) + x^2*exp(x)),x); # comments can go after a
                                    \frac{1}{2} \frac{1 + \tan(x)^2 + 2 x e^x + x^2 e^x}{\sqrt{\tan(x) + x^2 e^x}}
                                                                                                              (5)
> diff( sqrt( tan(x) + x^2*exp(x)), x$2 ); # differentiate 2
  times with respect to x
-\frac{1}{4} \frac{\left(1 + \tan(x)^2 + 2xe^x + x^2e^x\right)^2}{\left(\tan(x) + x^2e^x\right)^{3/2}} + \frac{1}{2} \frac{2\tan(x)\left(1 + \tan(x)^2\right) + 2e^x + 4xe^x + x^2e^x}{\sqrt{\tan(x) + x^2e^x}}
                                                                                                               (6)
```