

$2^{20} - 1 = 1048575$

```
var('x, y, z')  
z = x + y  
f2 = sin(2*x**2).diff(x)  
f2pi = f2.subs({x : pi})
```

$$f_2(\pi) = 4\pi \cos(2\pi^2) \approx 7.9128139291646589459084794305506\dots$$

```
phi = Symbol('phi')  
h = Integral(exp(-phi**2), (phi, 0, oo))
```

$$\int_0^{\infty} e^{-\phi^2} d\phi = \frac{\sqrt{\pi}}{2}$$

