```
> c := 'c'
```

$$c := c \tag{1}$$

```
> f := l -> int( ( 1/l ) * exp( -c*( r^2 + (l-r)^2 ) ), r = 0..l )
```

$$f := l \to \int_0^{l} \frac{e^{-c\left(r^2 + (l-r)^2\right)}}{l}\, dr \tag{2}$$

```
> f(l)
```

$$\frac{1}{2}\,\frac{\operatorname{erf}\left(\frac{1}{2}\sqrt{c}\,l\sqrt{2}\right)\sqrt{\pi}\; e^{-\frac{1}{2}cl^2}\sqrt{2}}{l\sqrt{c}} \tag{3}$$

```
> p := x -> diff( 1 - exp( -c*x^2 ), x )
```

$$p := x \to \frac{\partial}{\partial x}\left(1 - e^{-cx^2}\right) \tag{4}$$

```
> p(x)
```

$$2\,c\,x\,e^{-cx^2} \tag{5}$$

```
> p_k := int( p(l) * f(l), l = 0..infinity )
```

$$p_k := \frac{1}{9}\,\pi\sqrt{3} \tag{6}$$

```
> evalf( p_k )
```

$$0.6045997883 \tag{7}$$

```
>
```