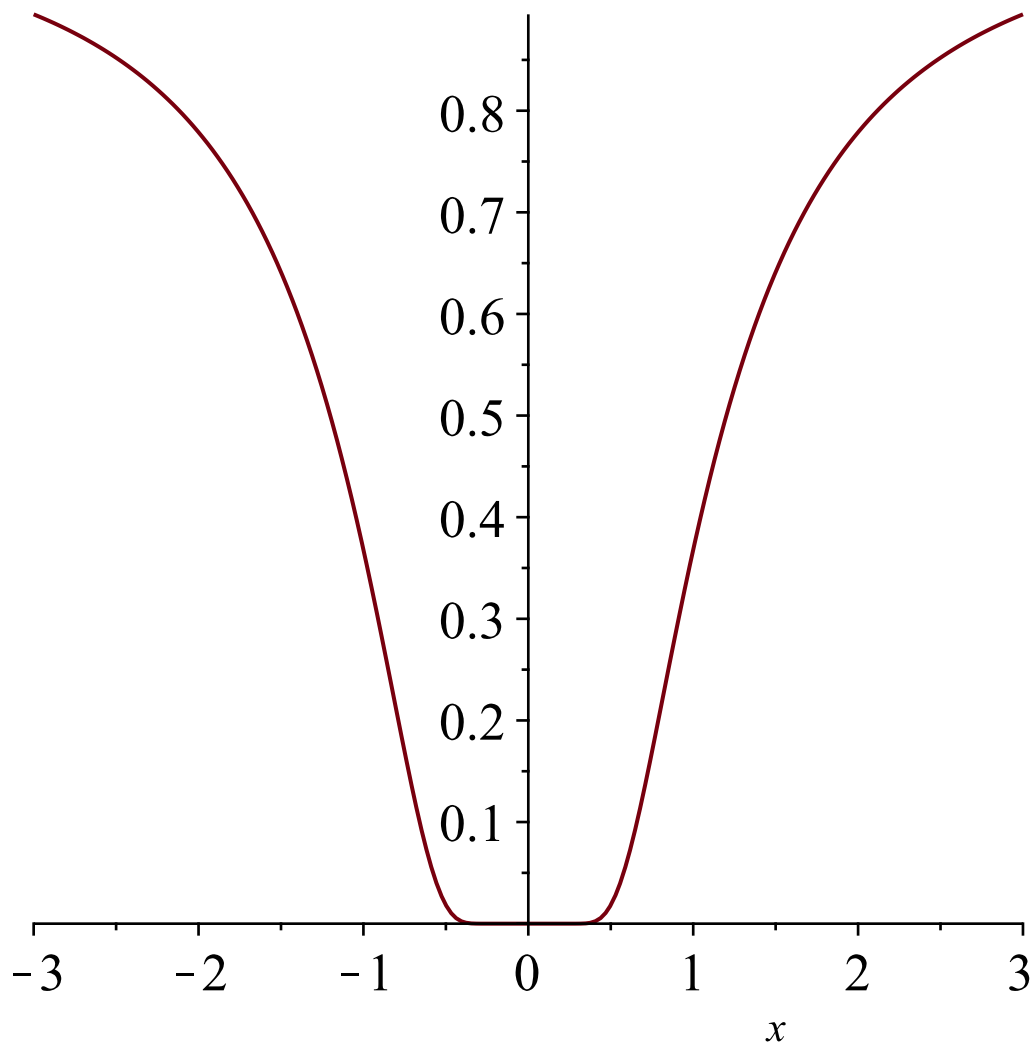```
> E:=exp(-1/x^2);
```

$$E := e^{-\frac{1}{x^2}} \tag{1}$$

```
> plot(E,x=-3..3);
```



```
> diff(E,x);
```

$$\frac{2\,e^{-\frac{1}{x^2}}}{x^3} \tag{2}$$

```
> diff(%,x);
```

$$-\frac{6\,e^{-\frac{1}{x^2}}}{x^4} + \frac{4\,e^{-\frac{1}{x^2}}}{x^6} \tag{3}$$

```
> simplify(%);
```

$$\frac{(-6\,x^2+4)\,e^{-\frac{1}{x^2}}}{x^6} \tag{4}$$

```
> diff(%,x); simplify(%);
```

$$-\frac{12\,e^{-\frac{1}{x^2}}}{x^5} + \frac{2\,\left(-6\,x^2+4\right)\,e^{-\frac{1}{x^2}}}{x^9} - \frac{6\,\left(-6\,x^2+4\right)\,e^{-\frac{1}{x^2}}}{x^7}$$

$$\frac{\left(24\,x^4-36\,x^2+8\right)\,e^{-\frac{1}{x^2}}}{x^9}$$

(5)