In [1]:
```
f(x)=x^2*e^(2*x)
show(f)
```

Out[1]:

$$x \mapsto x^2 e^{(2\,x)}$$

In [2]:
```
show(derivative(f(x),x,1))
```

Out[2]:

$$2\,x^2 e^{(2\,x)} + 2\,x e^{(2\,x)}$$

In [3]:
```
show(derivative(f(x),x,2))
```

Out[3]:

$$4\,x^2 e^{(2\,x)} + 8\,x e^{(2\,x)} + 2\,e^{(2\,x)}$$

In [4]:
```
show(derivative(f(x),x,3))
```

Out[4]:

$$8\,x^2 e^{(2\,x)} + 24\,x e^{(2\,x)} + 12\,e^{(2\,x)}$$

In [5]:
```
show(derivative(f(x),x,4))
```

Out[5]:

$$16\,x^2 e^{(2\,x)} + 64\,x e^{(2\,x)} + 48\,e^{(2\,x)}$$

In [6]:
```
show(derivative(f(x),x,5))
```

Out[6]:

$$32\,x^2 e^{(2\,x)} + 160\,x e^{(2\,x)} + 160\,e^{(2\,x)}$$

In [0]: